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VALVES CATALOGUE

• Brass • Stainless Steel • Carbon Steel • Bronze • Cast Iron • Ductile Iron





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• Brass • Stainless Steel • Carbon Steel • Bronze • Cast Iron • Ductile Iron

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BRONZE GATE VALVE, NON-RISING STEM BS 5154 PN20 RFGA20 1/2" - 2"

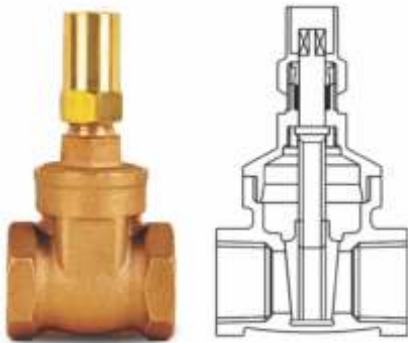
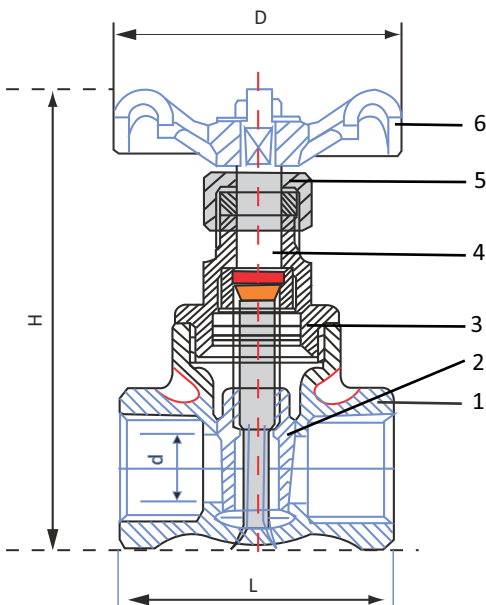


Fig.: RFGA20-LS



Features:

- Designed to BS 5154
- Pressure Rating: PN20
- Working Medium: Water, Oil, Steam
- Threaded Bonnet, Non-Rising Stem, Single piece Wedge
- End connection: BS21 Taper Threaded (ISO 7) / BS EN10226-2
- Available with NPT Threads, subject to minimum quantities
- Available with Lock shield (Fig. No. RFGA20-LS), subject to minimum quantities
- Hydrostatic Test Pressure
 - Shell - 30 bar
 - Seat - 22 bar

Material Specifications

Sl.	COMPONENT	MATERIAL
1	Body	Bronze CC491K
2	Wedge	Bronze CC491K
3	Bonnet	Bronze CC491K
4	Stem	DZR Brass CW602N
5	Gland Packing	PTFE
6	Handwheel	Aluminium

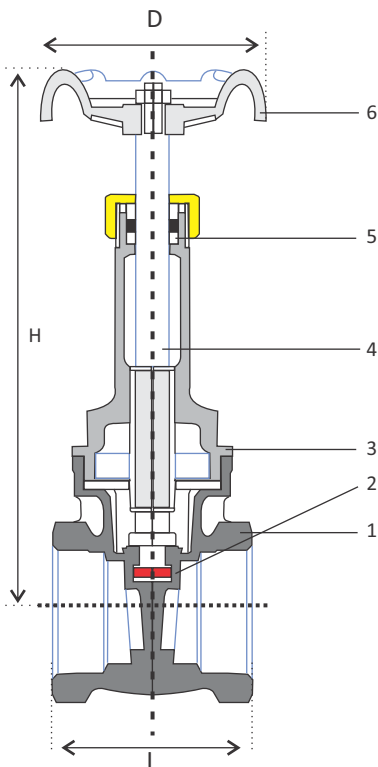
Dimensions (mm)

DN		d	L	H	D
Inches	MM				
1/2"	15	12.7	49.5	103	52
3/4"	20	19.1	53.5	109	52
1"	25	25.4	62	133	70
1 1/4"	32	31.8	70	145	70
1 1/2"	40	38.2	77	170	92
2"	50	50.9	87	206	92.5

All dimensions are nominal (indicative)
Actual dimensions may vary



BRONZE GATE VALVE, RISING STEM BS 5154 PN20 RFGA20-RS ½" - 2"



Features:

- Designed to BS 5154
- Pressure Rating: PN20
- Working Medium: Water, Oil, Steam
- Threaded Bonnet, Rising Stem, Single Piece Wedge
- End connection: BS21 Taper Threaded (ISO 7) / BS EN10226-2
- Available with NPT Threads, subject to minimum quantities
- Hydrostatic Test Pressure
 - Shell - 30 bar
 - Seat - 22 bar

Material Specifications

Sl.	COMPONENT	MATERIAL
1	Body	Bronze CC491K
2	Bonnet	Bronze CC491K
3	Wedge	Bronze CC491K
4	Stem	DZR Brass CW602N
5	Gland Packing	PTFE
6	Hand Wheel	Aluminium

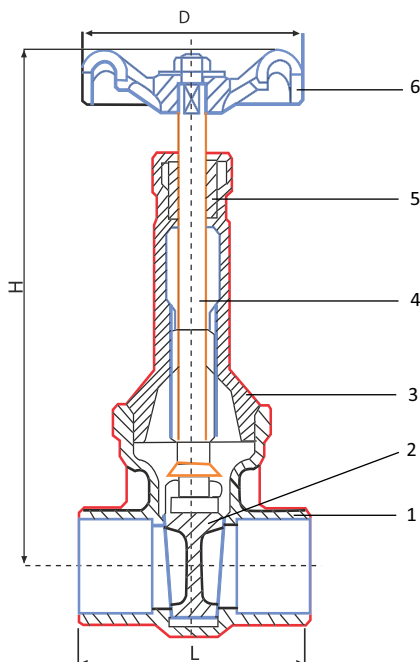
Dimensions (mm)

DN		L	H	D
Inches	MM			
½"	15	43	112	55
¾"	20	49	125	63
1"	25	54	143	70
1¼"	32	62	170	70
1½"	40	65	198	80
2"	50	75	233	90

All dimensions are nominal (indicative)
Actual dimensions may vary



BRONZE GATE VALVE, RISING STEM BS 5154 PN32 RFGA32-RS ½" - 2"



Features:

- Designed to BS 5154
- Pressure Rating: PN32
- Working Medium: Water, Oil, Steam
- Threaded Bonnet, Rising Stem, Single Piece Wedge
- End connection: BS21 Taper Threaded (ISO 7) / BS EN10226-2
- Available with NPT Threads, subject to minimum quantities
- Hydrostatic Test Pressure
 - Shell - 48 bar
 - Seat - 35.2 bar

Material Specifications

Sl.	COMPONENT	MATERIAL
1	Body	Bronze CC491K
2	Wedge	Bronze CC491K
3	Bonnet	Bronze CC491K
4	Stem	DZR Brass CW602N
5	Gland Packing	PTFE
6	Handwheel	Aluminium

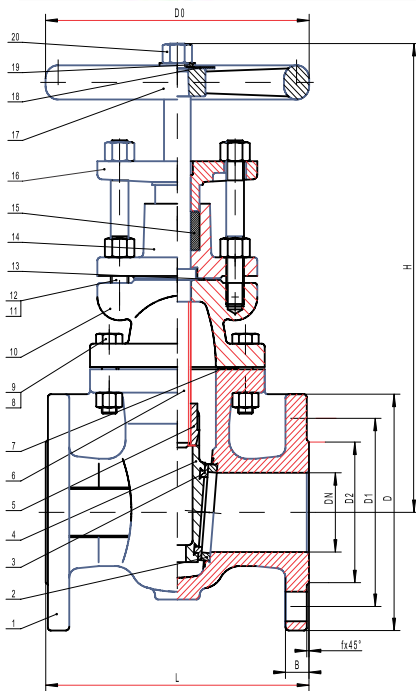
Dimensions (mm)

DN		L	H	D
Inches	MM			
½"	15	51	129	52
¾"	20	55	159	65
1"	25	63	189	70
1¼"	32	72.5	219	78
1½"	40	73	246	92
2"	50	83	301	92

All dimensions are nominal (indicative)
Actual dimensions may vary



CAST IRON GATE VALVE, NON-RISING STEM BS 5150 PN16 RFGA16 2½" - 16"



Features:

- Designed to BS5150
- Pressure Rating: PN16
- Working Medium: Water, Oil, Steam
- Flanged to BS4504 / BS EN1092-2
- Non-rising stem, inside screw
- Bolted bonnet, single piece wedge
- Face to Face dimensions according to BS558-1
- DI Body available upon request
- Other flange standards available upon request
- Other pressure ratings available upon request
- ANSI standards available upon request.
- Hydrostatic Test Pressure
Shell - 24 bar
Seat - 17.6 bar

Material Specifications

Sl.	COMPONENT	MATERIAL
1	Body	Cast Iron
2	Body Sealed Ring	Bronze
3	Wedge Sealed Ring	Bronze
4	Wedge	Cast Iron
5	Stem Nut	Brass
6	Stem Nut	brass
7	Gasket	Graphite
8	Bolt	Steel
9	Nut	Steel
10	Bonnet	Cast Iron
11	Double End Studs	Steel
12	Nut	Steel
13	Stuffing Box Gasket	Graphite
14	Double End Studs	Steel
15	Stuffing Box Gasket	Cast Iron
16	Packing	Graphite
17	Gland Follower	Ductile Iron
18	Handwheel	Cast Iron
19	Washer	Steel
20	Nut	Steel

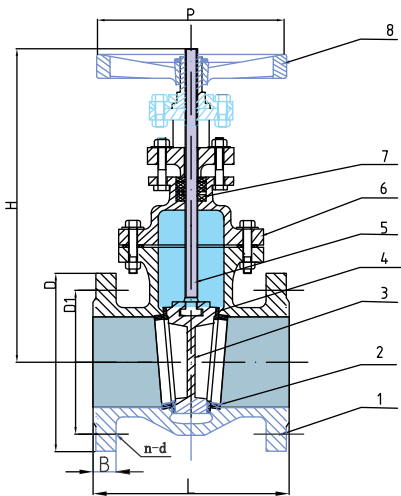
Dimensions (mm)

DN		L	D	D1	D2	B	n-ød	f	DD	H
Inches	mm									
2½"	65	190	185	145	118	20	4-ø19	3	178	332
3"	80	203.2	200	160	132	22	8-ø19	3	200	335
4"	100	228.6	220	180	156	24	8-ø19	3	254	423
5"	125	254	250	210	184	26	8-ø19	3	300	485
6"	150	266.7	285	240	211	26	8-ø23	3	300	545
8"	200	292.1	340	295	266	30	12-ø23	3	348	644
10"	250	330.2	405	355	319	32	12-ø28	3	400	769
12"	300	355.6	460	410	370	32	12-ø28	4	457	860
14"	350	381	520	470	429	36	16-ø28	4	560	987
16"	400	406.4	580	525	480	38	16-ø31	4	560	1044

All dimensions are nominal (indicative)
Actual dimensions may vary



CAST IRON GATE VALVE, RISING STEM BS 5150 PN16 RFGA16-RS 2½" - 12"



Features:

- Designed to BS5150
- Pressure Rating: PN16
- Working Medium: Water, Oil, Steam
- Flanged to BS4504 / BS EN1092-2
- Outside screw and yoke, rising stem
- Single piece wedge, bolted bonnet
- Face to Face: BS EN558-1
- Other flange standards available upon request
- Other pressure ratings available upon request
- ANSI standards available upon request.
- Hydrostatic Test Pressure
 - Shell - 24 bar
 - Seat - 17.6 bar

Material Specifications

Sl.	COMPONENT	MATERIAL
1	Body	Cast Iron
2	Wedge	Cast Iron
3	Body Seat Ring	Bronze
4	Wedge Seat Ring	Bronze
5	Bonnet	Cast Iron
6	Stem	Stainless Steel 416
7	Gland Packing	Graphite
8	Hand wheel	Carbon Steel

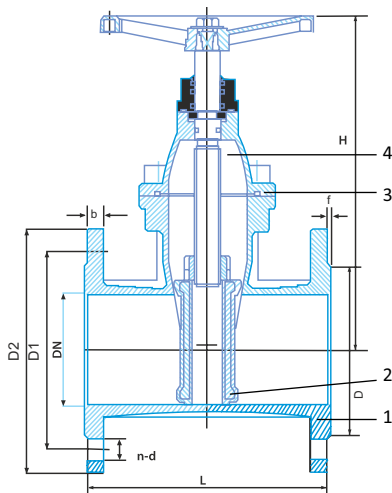
Dimensions (mm)

DN		D	D1	L	B	H	P	n-ød
Inches	mm							
2½"	65	185	145	190.5	20	338	203	4-ø19
3"	80	200	160	203.2	22	352	203	8-ø19
4"	100	220	180	228.6	24	433	254	8-ø19
5"	125	250	210	254	26	515	254	8-ø19
6"	150	285	240	266.7	26	602	304	8-ø23
8"	200	340	295	292.1	30	736	355	12-ø23
10"	250	405	355	330.2	32	978	457	12-ø28
12"	300	460	410	355.6	32	1063	457	12-ø28

All dimensions are nominal (indicative)
Actual dimensions may vary



DUCTILE IRON RESILIENT SEAT GATE VALVE, NON-RISING STEM BS 5163 PN16 RFGA16 2½" - 12"



Features:

- Designed to BS5163
- Pressure Rating: PN16
- Working Medium: Water, Oil, Steam
- Flanged to BS4504 / BS EN1092-2
- Non-rising stem, Resilient seat
- Bolted bonnet, single piece wedge
- Other flange standards available upon request
- Other pressure ratings available upon request
- ANSI standards available upon request.
- Hydrostatic Test Pressure
 - Shell - 24 bar
 - Seat - 17.6 bar

Material Specifications

Sl.	Parts	Material
1	Body	Ductile Iron
2	Wedge	Ductile Iron & EPDM
3	Bonnet	Ductile Iron
4	Stem	SS416

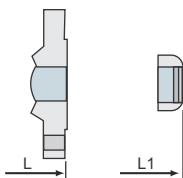
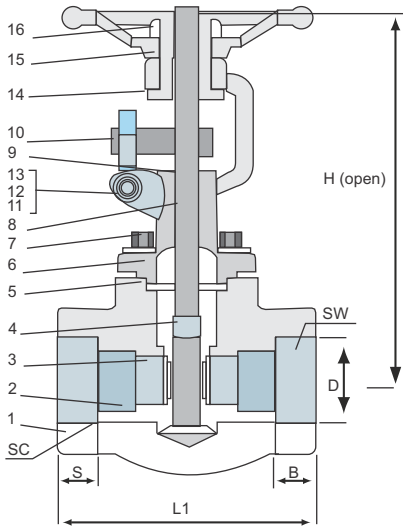
Dimensions (mm)

DN		L	H	D	D1	D2	b	f	n-ød
Inches	mm								
2½"	65	190	237	118	145	185	16	3	4-ø19
3"	80	203	274	132	160	200	16	3	8-ø19
4"	100	229	300	156	180	220	16	3	8-ø19
5"	125	254	364	184	210	250	17	3	8-ø19
6"	150	267	404	211	240	285	17	3	8-ø23
8"	200	292	497	265	295	340	18	3	12-ø23
10"	250	330	590	319	355	400	20	3	12-ø28
12"	300	356	667	370	410	455	22.5	4	12-ø28

All dimensions are nominal (indicative)
Actual dimensions may vary



**COMPACT STEEL GATE VALVE 800LB
RFGAV-800 3/8" – 2"**



FEATURES:

- Outside screw and yoke (OS&Y), bolted bonnet
- Choice of WB, Welded Bonnet
- Single wedge, fully guided
- Renewable seat rings
- Yoke integral with bonnet
- Rising stem and non-rising handwheel
- Socket Welding Ends, ASME B16.11
- Screwed Ends, ASME B1.20.1
- Buttwelding Ends, ASME B16.25
- Steel Gate Valves API 602 / ASME B16.34
- Face to Face, ASME B16.10
- Inspection and Test, API 598

Material Specifications

ITEM	COMPONENT	C-Si	ASTM Material	
			16Cr-12Ni-2Mo	1¼Cr-½Mo-Si
1	BODY	A105	A182-F316	A182-F11
2	BONNET	A105	A182-F316	A182-F11
3	WEDGE	A182-F6a	A182-F316	A182-F6a+HF
4	STEM	A276-410	A276-316	A276-410
5	SEAT RING	A276-410	A182-F316	A276-410+HF
6	BONNET GASKET	GRAPHITE+304	GRAPHITE+316	GRAPHITE+304
7	BONNET STUD	A193-B7	A193-B8M	A193-B16
8	PACKING	GRAPHITE		
9	GLAND	A276-410	A276-316	A276-410
10	GLAND FLANGE	A105	A182-F316	A182-F11
11	EYEBOLT PIN	A276-410	A276-316	A276-410
12	EYEBOLT	A193-B7	A193-B8M	A193-B16
13	EYEBOLT NUT	A194-2H	A194-8M	A194-2H
14	YOKESLEEVE	A276-410		
15	HANDWHEEL	MALLEABLE IRON		
16	HANDWHEEL NUT	CARBON STEEL		

Note : 1.) Spiral wound construction

Dimensions - Unit (mm)

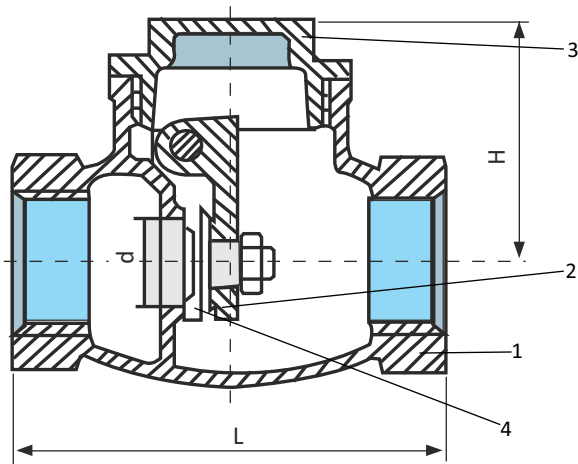
DN		L1	L (Flanged Ends)			d	SW		SC (Threaded)		H(open)	D0
Inches	MM		150Lb	300Lb	600Lb		D	B	NPT	S		
¾"	10	79	102	140	165	10	17.6	9.6	3/8"	13.6	151	100
½"	15	79	108	140	165	10	21.8	9.6	1/2"	13.6	151	100
¾"	20	92	117	152	190	13.5	27.1	12.7	3/4"	13.9	158	100
1"	25	111	127	165	216	18	33.8	12.7	1"	17.3	185	125
1¼"	32	120	140	178	229	24	42.6	12.7	1-1/4"	18	239	160
1½"	40	120	165	190	241	30	48.7	12.7	1-1/2"	18.4	243	160
2"	50	140	178	216	292	36.5	61.1	15.9	2"	19.2	279	180

Note : 1.) BW, SW or SC (Threaded)

2.) 600Lb-RF / 800Lb-(W/SW/SC(Threated))

All dimensions are nominal (indicative)
Actual dimensions may vary

BRONZE CHECK VALVE
BS 5154 PN20
RFCH20 ½" - 2"



Features:

- Designed to BS 5154
- Pressure Rating: PN20
- Working Medium: Water, Oil, Steam
- Horizontal swing pattern
- Threaded cover, metal to metal seat
- Suitable for mounting in horizontal and vertical pipe (with vertical flow upwards)
- BS21 Taper threaded (ISO 7) / BS EN10226-2
- Available with NPT threads, subject to minimum quantities
- Hydrostatic Test Pressure
 - Shell - 30 bar
 - Seat - 22 bar

Material Specifications

Sl.	Component	Material
1	Body	Bronze CC491K
2	Disc	Bronze CC491K
3	Cover	Bronze CC491K
4	Seat	Bronze CC491K

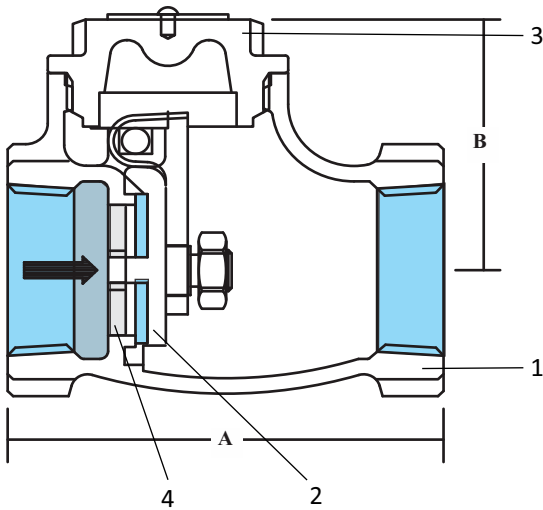
Dimensions (mm)

DN		d	L	H
Inches	MM			
½"	15	13	58	37
¾"	20	19	66	43
1"	25	25	76	49
1¼"	32	32	88	57.5
1½"	40	39	96	63
2"	50	50	112	72

All dimensions are nominal (indicative)
 Actual dimensions may vary



BRONZE CHECK VALVE BS 5154 PN25 RFCH25 1/2" - 2"



Features:

- Designed to BS 5154
- Pressure Rating: PN25
- Working Medium: Water, Oil, Steam
- Horizontal swing pattern
- Threaded cover, metal to metal seat
- Suitable for mounting in horizontal and vertical pipe (with vertical flow upwards)
- BS21 Taper threaded (ISO 7) / BS EN10226-2
- Available with NPT threads, subject to minimum quantities
- Hydrostatic Test Pressure
 - Shell - 37.5 bar
 - Seat - 27.5 bar

Material Specifications

Sl.	Component	Material
1	Body	Bronze CC491K
2	Disc	Bronze CC491K
3	Cover	Bronze CC491K
4	Seat	Bronze CC491K

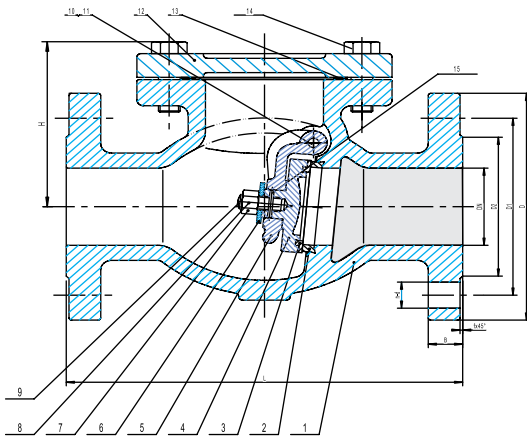
Dimensions (mm)

DN		A	B
Inches	MM		
1/2"	15	58	38
3/4"	20	66	42
1"	25	80	49
1 1/4"	32	89	56
1 1/2"	40	95	65
2"	50	108	78

All dimensions are nominal (indicative)
Actual dimensions may vary



CAST IRON SWING CHECK VALVE BS 5153 PN16 RFCH16 2½" - 24"



Features:

- Designed to BS5153
- Pressure Rating: PN16
- Working Medium: Water, Oil, Steam
- Bronze trim
- Flanged to BS4504 / BS EN1092-2
- Horizontal swing pattern
- Bolted cover
- Suitable for mounting in horizontal and vertical pipe (with vertical flow upwards)
- Lever and weight and air cushion check valves available upon request
- Other flange standards available upon request
- Other PN pressure ratings available upon request
- ANSI standards available upon request
- Hydrostatic Test Pressure
Shell - 24 bar
Seat - 17.6 bar

Material Specifications

Sl.	Component	Material
1	Body	Cast Iron
2	Seat Ring	Bronze
3	Disc Ring	Bronze
4	Disc	Cast Iron
5	Hanger	Ductile Iron
6	Washer	Stainless Steel
7	Nut	Stainless Steel
8	Split Pin	Stainless Steel
9	Disc Screw	Stainless Steel
10	Screw Plug	Brass
11	Hanger Pin	Stainless Steel
12	Bonnet	Cast Iron
13	Gasket	Graphite
14	Bolt	Stainless Steel
15	Pin	Stainless Steel

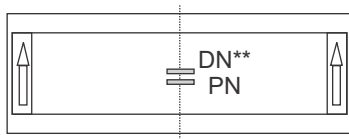
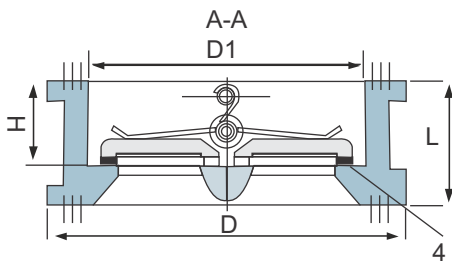
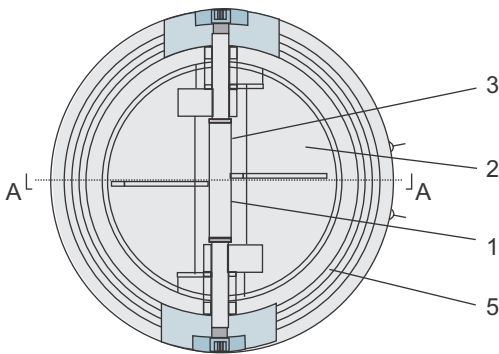
Dimensions (mm)

DN		L	D	D1	D2	B	n-d	f	H
Inches	mm								
2½"	65	215.9	185	145	118	20	4-Ø19	3	132
3"	80	241.3	200	160	132	22	8-Ø19	3	141
4"	100	292.1	220	180	156	24	8-Ø19	3	162
5"	125	330.2	250	210	184	26	8-Ø19	3	192
6"	150	355.6	285	240	211	26	8-Ø23	3	211
8"	200	495.3	340	295	266	30	12-Ø23	3	270
10"	250	622.3	405	355	319	32	12-Ø28	3	316
12"	300	698.5	460	410	370	32	12-Ø28	4	357
14"	350	787.4	520	470	429	36	16-Ø28	4	560
16"	400	914	580	525	480	38	16-Ø31	4	589
18"	450	914	640	585	548	40	20-Ø31	4	645
20"	500	1016	715	650	609	42	20-Ø34	4	702
24"	600	1121	840	770	720	48	20-Ø37	5	812

All dimensions are nominal (indicative) Actual dimensions may vary



CAST IRON DOUBLE DOOR CHECK VALVE WAFER TYPE PN16 RFCH16 2½" - 24"



Features:

- Pressure Rating: PN16
- Working Medium: Water, Oil, Steam
- Stainless Steel Spring
- EPDM seat
- Face to face BS EN558-1 Series 16
- Suitable for mounting between EN1092-2 flanges
- Suitable for mounting in horizontal and vertical pipeline
- Other pressure ratings available upon request
- ANSI standards available upon request.

Shell - 24 bar
Seat - 17.6 bar

Material Specifications

Sl.	Component	Material
1	Body	Cast Iron
2	Disc	DI NP / SS / AB
3	Stem	SS304
4	Seat	EPDM
5	Spring	SS304

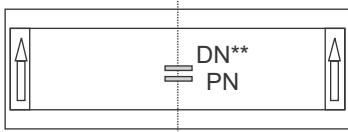
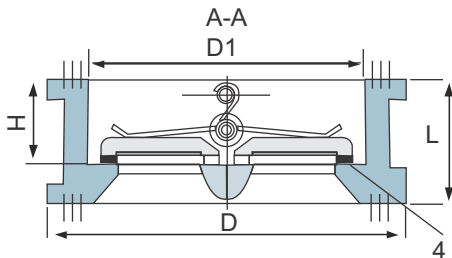
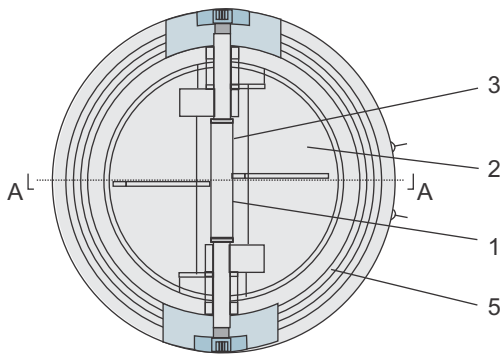
Dimensions (mm)

DN		H	L	D1	D
Inches	mm				
2½"	65	34	46	80	127
3"	80	44	64	94	142
4"	100	48	64	117	162
5"	125	50	70	145	192
6"	150	52	76	170	218
8"	200	58	89	224	273
10"	250	78	114	265	328
12"	300	74	114	310	380
14"	350	79	127	360	439
16"	400	88	140	410	490
18"	450	98	152	450	554
20"	500	100	152	505	616
24"	600	124	178	624	724

All dimensions are nominal (indicative)
Actual dimensions may vary



DUCTILE IRON DOUBLE DOOR CHECK VALVE WAFER TYPE PN25 RFCH25 2½" - 24"



Features:

- Pressure Rating: PN25
- Working Medium: Water, Oil, Steam
- Stainless Steel Spring
- EPDM seat
- Face to face BS EN558-1 Series 16
- Suitable for mounting between EN1092-2 flanges
- Suitable for mounting in horizontal and vertical pipeline
- Other pressure ratings available upon request
- ANSI standards available upon request.

Shell - 37.5 bar

Seat - 27.5 bar

Material Specifications

Sl.	Component	Material
1	Body	Ductile Iron
2	Disc	DI NP / SS / AB
3	Stem	SS304
4	Seat	EPDM
5	Spring	SS304

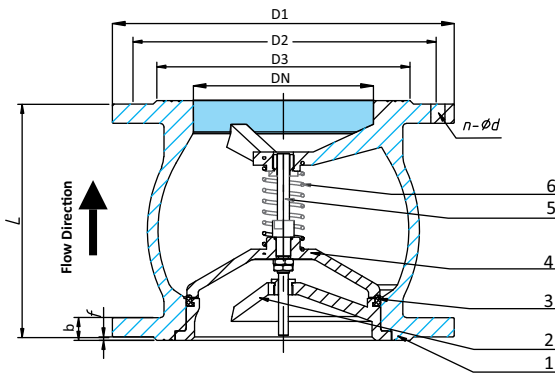
Dimensions (mm)

DN		H	L	D1	D
Inches	mm				
2½"	65	34	46	80	127
3"	80	44	64	94	142
4"	100	48	64	117	162
5"	125	50	70	145	192
6"	150	52	76	170	218
8"	200	58	89	224	273
10"	250	78	114	265	328
12"	300	74	114	310	380
14"	350	79	127	360	439
16"	400	88	140	410	490
18"	450	98	152	450	554
20"	500	100	152	505	616
24"	600	124	178	624	724

All dimensions are nominal (indicative)
Actual dimensions may vary



DUCTILE IRON SILENT CHECK VALVE PN16 RFCH16 2½" - 10"



Features:

- Pressure Rating: PN16
- Resilient seated sealing, zero leakage
- Spring load design, reduces the water hammer, no noise
- Axial flow design insures short stroke, quick close to the seat.
- Can be installed in any direction
- Face to Face: BS EN558-1 Basic Series 1
- Connection Standard: BS EN1092-2
 - Shell - 24 bar
 - Seat - 17.6 bar

Material Specifications

Sl.	Component	Material
1	Body	Ductile Iron
2	Seat	Ductile Iron
3	Seating	EPDM
4	Disc	Ductile Iron
5	Stem	SS420
6	Spring	SS304

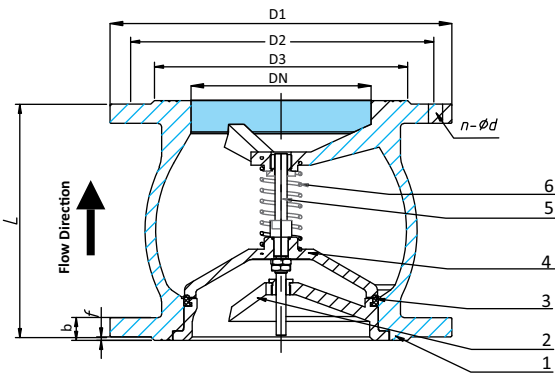
Dimensions (mm)

DN		D1	D2	D3	L	n-Ød	b	f
Inches	mm							
2½"	65	185	145	118	120	4-Ø19	19	3
3"	80	200	160	132	140	8-Ø19	19	3
4"	100	220	180	156	160	8-Ø19	19	3
5"	125	250	210	184	180	8-Ø19	19	3
6"	150	285	240	211	200	8-Ø23	20	3
8"	200	340	295	266	220	12-Ø23	22	3
10"	250	405	355	319	280	12-Ø28	22	3

All dimensions are nominal (indicative)
Actual dimensions may vary



DUCTILE IRON SILENT CHECK VALVE PN25 RFCH25 2½" - 10"



Features:

- Pressure Rating: PN25
- Resilient seated sealing, zero leakage
- Spring load design, reduces the water hammer, no noise
- Axial flow design insures short stroke, quick close to the seat.
- Can be installed in any direction
- Face to Face: BS EN558-1 Basic Series 1
- Connection Standard: BS EN1092-2
 - Shell - 37.5 bar
 - Seat - 27.5 bar

Material Specifications

Sl.	Component	Material
1	Body	Ductile Iron
2	Seat	Ductile Iron
3	Seating	EPDM
4	Disc	Ductile Iron
5	Stem	SS420
6	Spring	SS304

Dimensions (mm)

DN		D1	D2	D3	L	n-ød	b	f
Inches	mm							
2½"	65	185	145	118	120	8-ø19	19	3
3"	80	200	160	132	140	8-ø19	19	3
4"	100	235	190	156	160	8-ø23	19	3
5"	125	270	220	184	180	8-ø28	20	3
6"	150	300	250	211	200	8-ø28	22	3
8"	200	360	310	274	220	12-ø28	24.5	3
10"	250	425	370	330	280	12-ø31	24.5	3

All dimensions are nominal (indicative)
Actual dimensions may vary

INNER THREAD CONNECTING CHECK VALVE RFCH-IT 1/2" – 2"



FEATURES:

- Pipe thread in accordance : NPT, BSPT, DIN259, DIN2999, ISO228
- Investment casting body
- Working pressure : #200
- API598, GB/T13927, ISO5208

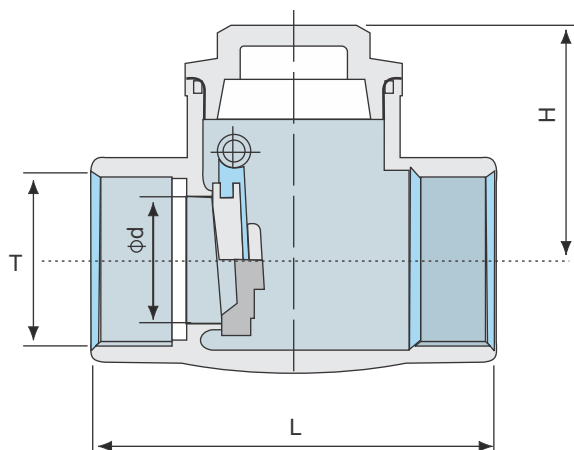
Material Specifications

ITEM	COMPONENT	MATERIALS
1	BODY	1.4308/CF8 1.4408/CF8M
2	CAP	1.4308/CF8 1.4408/CF8M
3	DISC	1.4308/CF8 1.4408/CF8M
4	PIN	304 316
5	SEAL	PTFE

Dimensions - Unit (mm)

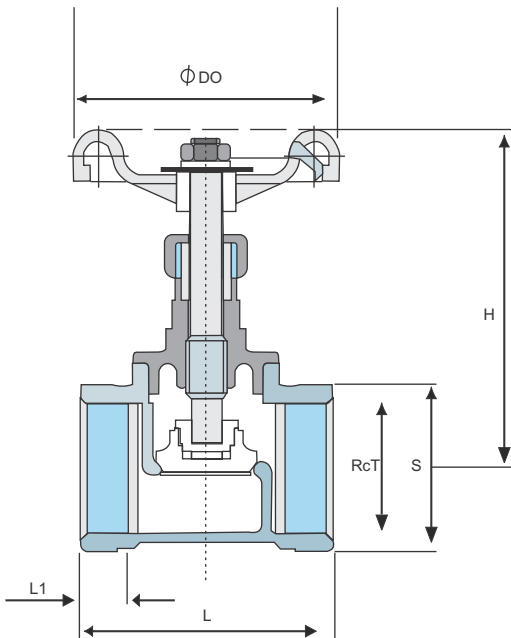
DN		S	d	T	L	H
Inches	MM					
½"	15	27	15	1/2"	66	45.5
¾"	20	34	20	3/4"	80	53
1"	25	42	25	1"	89	56.5
1¼"	32	49	32	1-1/4"	106	61.5
1½"	40	57	38	1-1/2"	121	70.5
2"	50	69	50	2"	140	76.5

All dimensions are nominal (indicative)
Actual dimensions may vary





INNER THREAD CONNECTING GLOBE VALVE RFGLV-GL 1/4" – 2"



FEATURES:

- Pipe thread in accordance : NPT, BSPT, DIN259, DIN2999, ISO228
- Investment casting body
- Working pressure : #200
- API598, GB/T13927, ISO5208

Material Specifications

ITEM	COMPONENT	MATERIALS
1	BODY	SCS13A/ CF8 SCS14A / CF8M
2	CAP	SCS13A/ CF8 SCS14A / CF8M
3	DISC	SCS13A/ CF8 SCS14A / CF8M
4	STEM	SS304 SS316
5	GLAND	SS304
6	NUT	SS304
7	GASKET	SS304
8	HANDLE	ADC 12
9	NAME PLATE	AL100P-H
10	PACKING	PTFE
11	SEAL	SS304

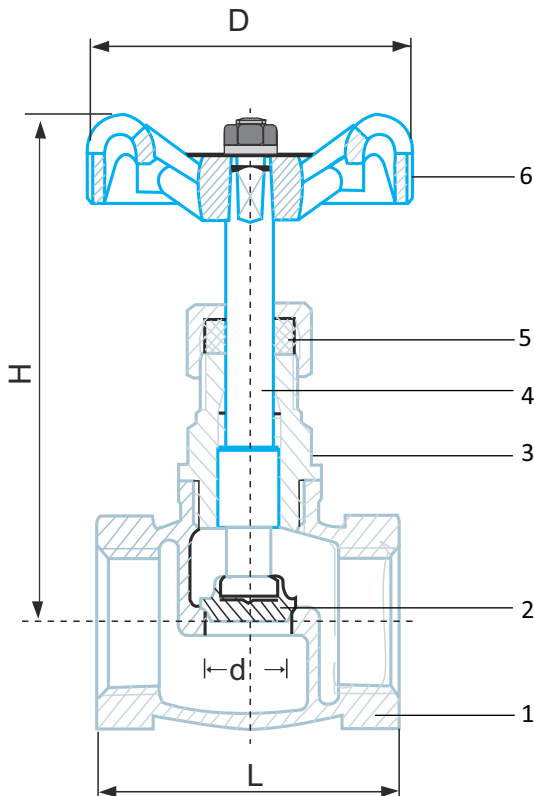
Dimensions - Unit (mm)

DN		S	DO	T	L	L1	H
Inches	MM						
¼"	8	19	60	1/4"	52	9.7	87
⅜"	10	22	60	3/8"	52	10.1	87
½"	15	27	60	1/2"	52	12.5	87
¾"	20	33	72	3/4"	60	13	94
1"	25	41	77.7	1"	72	16.8	104.5
1¼"	32	50	98.5	1-1/4"	80	17	117
1½"	40	56	98.5	1-1/2"	91	17.5	136.5
2"	50	69	98.5	2"	101	21	161

All dimensions are nominal (indicative)
Actual dimensions may vary



BRONZE GLOBE VALVE, RISING STEM BS 5154 PN16 RFGL16 1/2" - 2"



Features:

- Designed to BS5154
- Pressure Rating: PN16
- Working Medium: Water, Oil, Steam
- Threaded Bonnet, Rising Stem
- End connection: BS21 Taper Threaded (ISO 7) / BS EN10226-2
- Available with NPT threads, subject to minimum quantities
- Hydrostatic Test Pressure
 - Shell - 24 bar
 - Seat - 17.6 bar

Material Specifications

Sl.	Component	Material
1	Body	Bronze CC491K
2	Disc (1½" - 2")	Bronze CC491K
	Disc (½" - 1¼")	DZR Brass CW602N
3	Bonnet	Bronze CC491K
4	Stem	DZR Brass CW602N
5	Gland Packing	PTFE
6	Handwheel	Aluminium

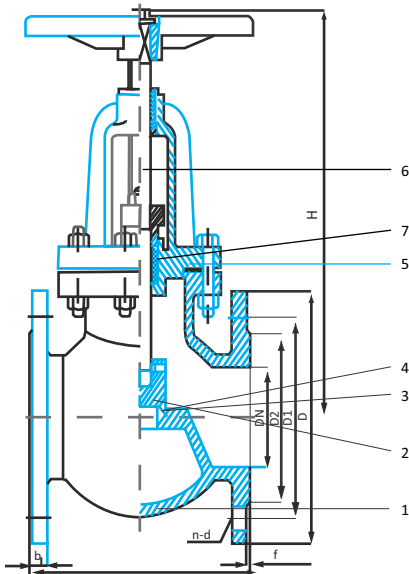
Dimensions - Unit (mm)

DN		d	L	H	D
Inches	MM				
½"	15	14	49	71	52
¾"	20	14	56	73	60
1"	25	19	66	87	65
1¼"	32	24	74	95	70
1½"	40	32	85	110	78
2"	50	38	100	124	92

All dimensions are nominal (indicative)
Actual dimensions may vary



CAST IRON GLOBE VALVE BS 5152 PN16 RFGL16 2½" - 12"



Features:

- Designed to BS5152 (Short)
- Pressure Rating: PN16
- Working Medium: Water, Oil, Steam
- Flanged to BS4504 / BS EN1092-2
- Outside screwed yoke, rising stem
- Other flange standards available upon request
- Other pressure ratings available upon request
- ANSI standards available upon request.
- Hydrostatic Test Pressure
 - Shell - 24 bar
 - Seat - 17.6 bar

Material Specifications

Sl.	Component	Material
1	Body	Cast Iron
2	Disc	Ductile Iron
3	Body Seat Ring	Bronze
4	Disc Seat Ring	Bronze
5	Bonnet	Cast Iron
6	Stem	Stainless Steel
7	Gland Packing	Graphite

Dimensions - Unit (mm)

DN		L	H	D	D1	D2	b	f	N-d
Inches	mm								
2½"	65	216	295	185	145	122	20	3	4-ø19
3"	80	241	314	200	160	138	22	3	8-ø19
4"	100	292	359	220	180	158	24	3	8-ø19
5"	125	330	388	250	210	188	26	3	8-ø19
6"	150	356	454	285	240	212	26	3	8-ø23
8"	200	495	506	340	295	268	30	3	12-ø23
10"	250	622	584	405	355	320	32	3	12-ø28
12"	300	698	690	460	410	378	32	4	12-ø28

All dimensions are nominal (indicative)
Actual dimensions may vary



BRASS BALL VALVE 600WOG RFBAV-600 1/4" – 4"



FEATURES:

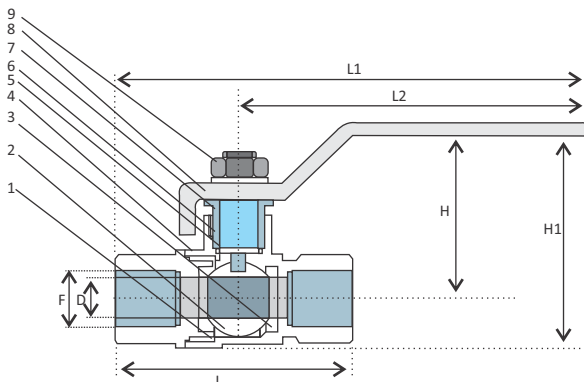
- Brass Gas Ball Valve
- Steel Handle JS588
- Quarter Turn Handle

Material Specifications

Sl.	Component	Material
1	Nut	Brass
2	Body	Brass
3	Ball	Brass
4	Sealing Seat	PTFE
5	Stem	Brass
6	Stuffing	PTFE
7	Pressing Nut	Brass
8	Handle	Iron
9	A3 Nut	

Dimensions - Unit (mm)

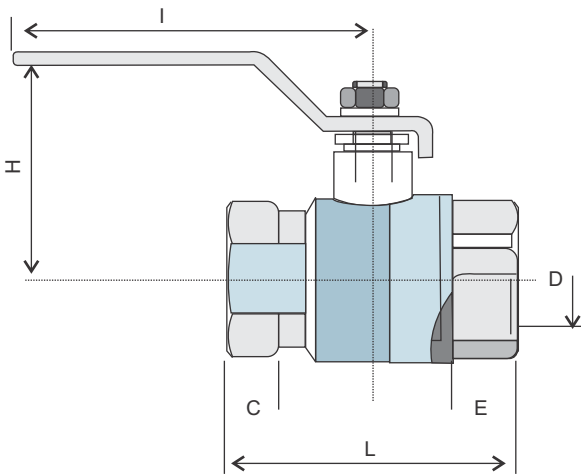
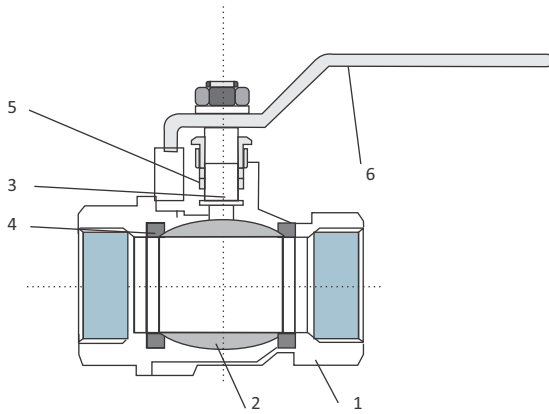
DN		D	L1	L2	L	H	H1
Inches	MM						
1/4"	8	10	109.5	84	51	45.5	57.5
3/8"	10	10	109.5	84	51	45.5	57.5
1/2"	15	15	114	84	59.5	49.5	65.5
3/4"	20	20	132.5	100	64.5	51.5	70
1"	25	25	158	119	78	62.5	85.5
1 1/4"	32	32	190	143	92.5	80	106
1 1/2"	40	40	193.5	143	100.5	85	120
2"	50	49	228	168	120.5	92.5	136.5
2 1/2"	65	60	260	220	120.5	116.5	166
3"	80	70	359.5	285	148.5	130	190
4"	100	75	298.5	226	146.5	135	195.5



All dimensions are nominal (indicative)
Actual dimensions may vary



BRONZE BALL VALVE PN25 RFBA25 1/2" - 2"



Features:

- Pressure Rating: PN25
- Working Medium: Water, Oil, Steam
- Blow-out proof stem
- Full bore chrome plated ball, Two piece body
- PTFE seats and stem seals
- BS21 Taper Threaded (ISO 7) / BS EN10226-2
- Available with NPT Threads, subject to minimum quantities
- Available with Lockshield, subject to minimum quantities
- Hydrostatic Test Pressure
 - Shell - 37.5 bar
 - Seat - 27.5 bar

Material Specifications

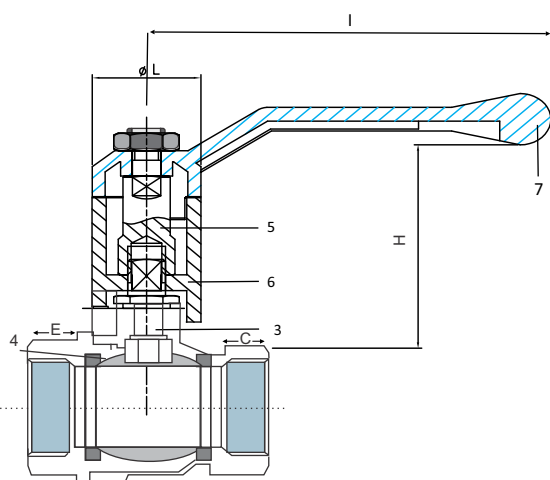
Sl.	Component	Material
1	Body	Bronze CC491K
2	Ball	Brass CW617N (Chrome Plated)
3	Stem	DZR Brass CW602N
4	Seat	PTFE
5	Packing	PTFE
6	Lever	Chrome Plated Steel with PVC Cover

Dimensions - Unit (mm)

DN		L	C	D	E	I	H
Inches	MM						
1/2"	15	54	10	13	14.7	95	44
3/4"	20	63	11	19	15.5	110	51
1"	25	77	12.5	25	19.3	110	55
1 1/4"	32	89	16	32	20	140	65
1 1/2"	40	97	17.5	38	20	140	70
2"	50	108	19	47	21	160	83

All dimensions are nominal (indicative)
Actual dimensions may vary

BRONZE BALL VALVE WITH EXTENSION PN25 RFBA25-EXT ½" - 2"



Features:

- Pressure Rating: PN25
- Working Medium: Water, Oil, Steam
- Blow-out proof stem
- Full bore chrome plated ball, Two piece body
- PTFE seats and stem seals
- BS21 Taper Threaded (ISO 7) / BS EN10226-2
- Available with NPT Threads, subject to minimum quantities
- Hydrostatic Test Pressure
 - Shell - 37.5 bar
 - Seat - 27.5 bar

Material Specifications

Sl.	Component	Material
1	Body	Bronze CC491K
2	Ball	Brass CW617N (Chrome Plated)
3	Stem	DZR Brass CW602N
4	Seat	PTFE
5	Extension Stem	Brass CW617N
6	Extension Housing	Aluminium
7	Lever	Chrome Plated Steel Lever with PVC Cover

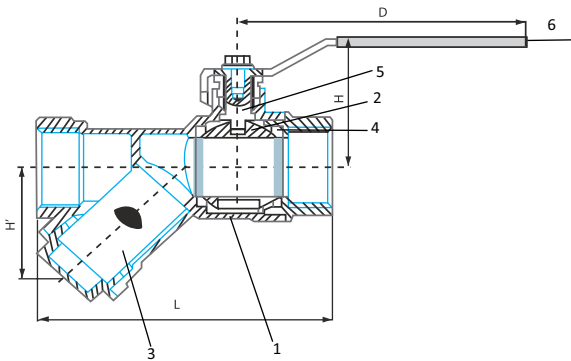
Dimensions (mm)

DN		L	H	ØL	C	E	I
Inches	MM						
½"	15	54	55	23	10	14.7	85.5
¾"	20	63	55	23	11	15.5	85.5
1"	25	77	62	27	12.5	19.3	98.5
1¼"	32	89	66	30.5	16	20	129
1½"	40	97	66	30.5	17.5	20	129
2"	50	108	82	34	19	21	143.5

All dimensions are nominal (indicative)
Actual dimensions may vary



BRONZE BALL VALVE WITH STRAINER PN25 RFBA25 1/2" - 1 1/4"



Features:

- Pressure Rating: PN25
- Working Medium: Water, Oil, Steam
- SS304 Screen
- Full bore chrome plated ball
- Screwed Cap
- BS21 Taper Threaded (ISO 7) / BS EN10226-2
- Available with NPT Threads, subject to minimum quantities
- Mesh details in separate section
- Hydrostatic Test Pressure
 - Shell - 37.5 bar
 - Seat - 27.5 bar

Material Specifications

Sl.	Component	Material
1	Body	Bronze CC491K
2	Ball	Brass CW617N (Chrome Plated)
3	Screen	Stainless Steel Type 304
4	Seat	PTFE
5	Stem	Brass CW617N
6	Lever	Chrome Plated Steel Lever with PVC Cover

Dimensions - Unit (mm)

DN		D	L	H	H'
Inches	MM				
1/2"	15	95	80	44	33
3/4"	20	95	92	47	38
1"	25	110	112	55	46
1 1/4"	32	140	141	65	55

All dimensions are nominal (indicative)
Actual dimensions may vary

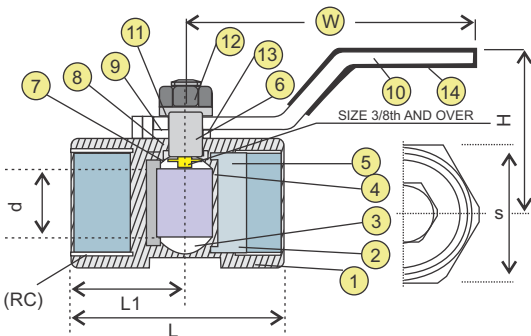
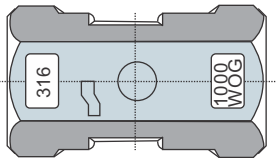


SCREWED END 1-PIECE DESIGN REDUCED PORT BALL VALVE RFBAV-1 1/4" ~ 2"



OPTION :

- Locking device
- Oval Handle
- Wing Handle



INVESTMENT CASTING STAINLESS STEEL BALL VALVE SCREWED END

FEATURES:

- Pipe thread in accordance with ANSI B2.1, BS 21 1973, DIN 259/2999, ISO 228
- Blow-out proof stem / Reduce bore
- Investment casting body and inscrewed
- 800 PSI (55 Bar) W.O.G. / 1000 PSI (69 Bar) W.O.G.
- Material : ASTM-A351 – CF8M, ASTM-A351-CF8

Material Specifications

SI	Component	Material	Specification
			JIS SPEC.
1	Body	ASTM - A351 - CF8M	SUS316 OR SCS14A
2	Insert	ASTM - A351 - CF8M	SUS316 OR SCS14A
3	Ball	ASTM - A351 - CF8M	SUS316
4	Ball Seat	15% R-PTFE	15% R-PTFE
5	Joint Gasket	15% R-PTFE	15% R-PTFE
6	Stem	AISI 316	SUS316
7	Thrust Washer	15% R-PTFE	15% R-PTFE
8	Stem Packing	15% R-PTFE	15% R-PTFE
9	Stem Washer	AISI 304	SUS304
10	Handle	AISI 304	SUS304
11	Spring Washer	AISI 304	SUS304
12	Stem Nut	AISI 304	SUS304
13	Belleville Washer	AISI 304	SUS304
14	Plastic Cover	Plastic	Plastic

Dimensions - Unit (mm)

DN		d	L	L1	H	W	S	Cv
Inches	MM							FACTOR
1/4"	8	5	39	19	35	66	17	3.8
3/8"	10	7	44	21	36	74	21	4
1/2"	15	9.2	56.5	27.5	41	89	25	4.5
3/4"	20	12.5	59	30	44	89	32	9
1"	25	16	71	36	51	105	38	16
1 1/4"	32	20	78	39	56	105	48	24
1 1/2"	40	24.5	83	41.7	64	130	53	37
2"	50	32	100	50	71	130	65	68

All dimensions are nominal (indicative)
Actual dimensions may vary

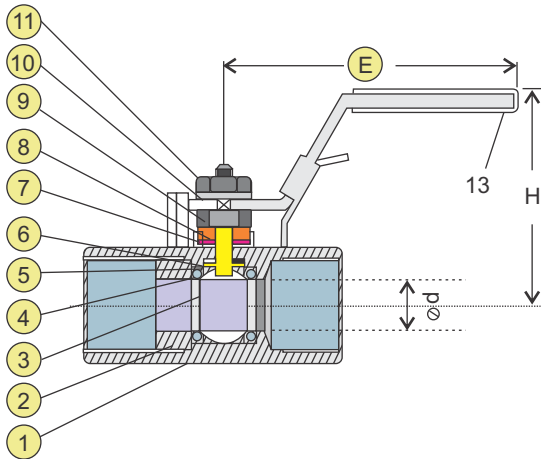
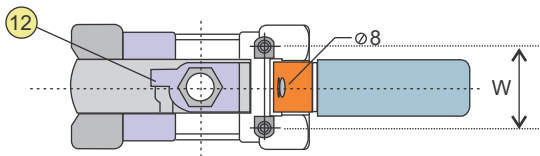


**SCREWED END
1-PIECE DESIGN REDUCED PORT BALL VALVE
RFBAV-1M 1/4" ~ 2"**



OPTION :

- Locking device
- Drilling and Tapped Mounting Pad



**INVESTMENT CASTING
STAINLESS STEEL BALL VALVE
SCREWED END**

FEATURES:

- Pipe thread in accordance with ANSI B2.1, BS 21 1973, DIN 259/2999, ISO 228
- Blow-out proof stem / Reduce bore
- Investment casting body and inscrewed
- 2000 PSI W.O.G.
- Mounting Pad
- Material : ASTM-A351 – CF8M, ASTM-A351-CF8

Material Specifications

Sl.	Component	Material
1	Body	ASTM - A351 - CF8M
2	Insert	ASTM - A351 - CF8M
3	Ball	ASTM - A351 - CF8M
4	Seat	15% R-PTFE
5	Thrust Washer	15% R-PTFE
6	Stem	AISI 316
7	Stem Seal	PTFE
8	Gland Washer	AISI 304
9	Conical Spring Washer	AISI 304
10	Spring Washer	AISI 304
11	Nut	AISI 304
12	Lever Handle	AISI 304
13	Handle Sleeve	Plastic

Dimensions - Unit (mm)

DN		d	L	H	E	W
Inches	MM					
1/4" - 3/8"	8 - 10	9.2	58.5	46	102	28.3
1/2"	15	9.2	66	54	97	28
3/4"	20	12.5	70	56	98	28
1"	25	15.5	80	63	104	35.4
1 1/4"	32	20	95	67	101	35.4
1 1/2"	40	25	101	69	156	35.4
2"	50	32	114	77	155	35.4

All dimensions are nominal (indicative)
Actual dimensions may vary

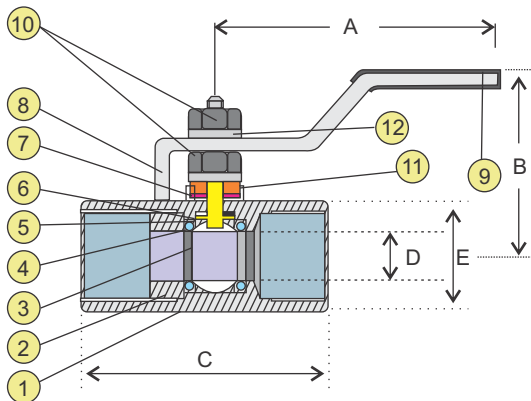
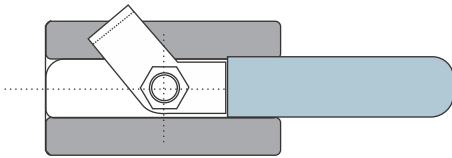


**SCREWED END
1-PIECE DESIGN HEXAGONAL REDUCED PORT BALL VALVE
RFBV-1H 1/4" ~ 2"**



OPTION :

- Polished Surface (Stainless Steel only)



**BAR STOCK/INVESTMENT CASTING
STAINLESS STEEL/CARBON STEEL SCREWED END**

FEATURES:

- Pipe thread in accordance with ANSI B2.1, BS 21 1973, DIN 259/2999, ISO 228
- Blow-out proof stem
- 1000 PSI (69 Bar) / 2000 PSI (138 Bar) W.O.G.
- Material : ASTM-A351 – CF8M, ASTM-A351-CF8;A1018

Material Specifications

ITEM	COMPONENT	MATERIALS		
1	BODY	A1018	WCB	CF8M
2	INSERT	A1018	WCB	SUS 316
3	BALL	SUS 316	SUS 316	SUS 316
4	SEAT	15% R-PTFE	15% R-PTFE	15% R-PTFE
5	STEM	SUS 316	SUS 316	SUS 316
6	THRUST WASHER	PTEE	PTEE	PTEE
7	STEM SEAL	PTEE	PTEE	PTEE
8	HANDLE	SUS 304	SUS 304	SUS 304
9	HANDLE SLEEVE	PLASTIC	PLASTIC	PLASTIC
10	NUT	SUS 304	SUS 304	SUS 304
11	WASHER	SUS 304	WCB	SUS 304
12	SPRING WASHER	SUS 304	SUS 304	SUS 304

Dimensions - Unit (mm)

DN		A	B	C	D	E
Inches	MM					
1/4"	8	66	38	39.4	5	17.5
3/8"	10	78	32.6	44	7.2	21.2
1/2"	15	108	62	56.7	9	29
3/4"	20	108	64.5	65.3	12.5	34.8
1"	25	108	63	76.5	15	41
1 1/4"	32	145	80.5	91.7	20	54.5
1 1/2"	40	145	80.5	98.5	25	57.9
2"	50	151	92	114.5	32	72.9

All dimensions are nominal (indicative)
Actual dimensions may vary

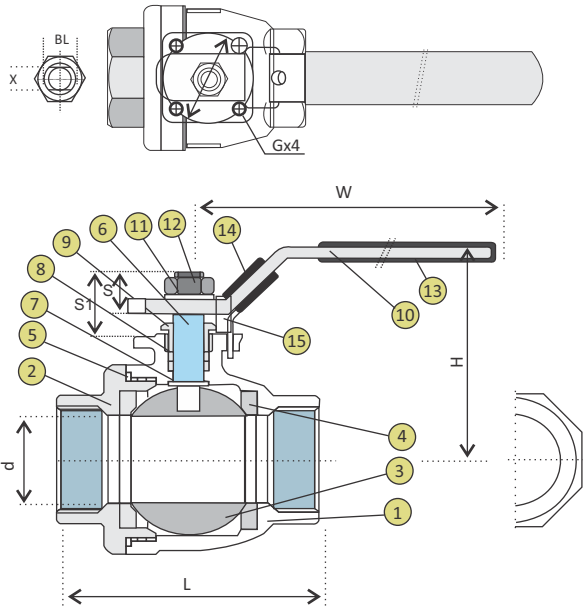


**SCREWED END
2-PIECE DESIGN MOUNTING PAD FULL PORT BALL VALVE
RFBV-2IM 1/4" ~ 3"**



OPTION :

- Locking Device



**STAINLESS STEEL AISI-316
(DIN 1.4408) (ASTM-A315-CF8M)
ANSI-304 (DIN 1.4301) (ASTM-A351-CF8)
CARBON STEEL S-45C (DIN 1.0619) (ASTM-A216-WCB)**

FEATURES:

- Pipe thread in accordance with ANSI B2.1, BS 21 1973, DIN 259/2999, ISO 228
- 800 PSI (55 Bar) W.O.G. / 1000 PSI (69 Bar) W.O.G.
- Blow-out proof stem / Full port
- Investment casting body and cap
- Material : ASTM-A351 – CF8M, ASTM-A351-CF8 & ASTM-A216-WCB
- Mounting flanges for ISO Standard 5211
- Lug body

Material Specifications

ITEM	COMPONENT	MATERIALS	
		RFBV-2IM	RFBV-2IM-C
1	BODY	ASTM - A351 - CF8M	ASTM - A216 – WCB
2	CAP	ASTM - A351 - CF8M	ASTM - A216 – WCB
3	BALL	ASTM - A351 - CF8M	ASTM - A351 - CF8M
4	BALL SEAT	15% R-PTFE	15% R-PTFE
5	JOINT GASKET	PTFE	PTFE
6	STEM	AISI 316	AISI 316
7	THRUST WASHER	PTFE	PTFE
8	STEM PACKING	PTFE	PTFE
9	GLAND NUT	AISI 304	AISI 304
10	HANDLE	AISI 304	AISI 304
11	SPRING WASHER	AISI 304	AISI 304
12	STEM NUT	AISI 304	AISI 304
13	PLASTIC COVER	PLASTIC	PLASTIC
14	LOCK DEVICE	AISI 304	AISI 304
15	STOP PIN	AISI 304	AISI 304

Dimensions - Unit (mm)

DN		d	L	H	W	S	S1	X	BL	ISO 5211		Cv
Inches	MM									M	G	
1/4"	8	11.6	50	51	95	16.5	10.2	5	5/16"	36	M5	6.6
3/8"	10	12.7	50	51	95	16.5	10.2	5	5/16"	36	M5	7.9
1/2"	15	15	60	53	115	16.5	10.2	5	5/16"	36	M5	11.2
3/4"	20	20	70	60	135	20	13.5	6.5	3/8"	36	M5	21
1"	25	25.4	82	74	135	23.5	16	8	7/16"	42	M5	35
1 1/4"	32	32	95	80	135	23.5	16	8	7/16"	42	M5	57
1 1/2"	40	38	108	92	165	25.5	17	9	1/2"	50	M6	80
2"	50	50.8	134	101	165	25.5	17	9	1/2"	50	M6	150
2 1/2"	65	65	158	130	215	41	29.5	12	3/4"	70	M8	265
3"	80	80	185	142	215	41	29.5	12	3/4"	70	M8	415

All dimensions are nominal (indicative)
Actual dimensions may vary

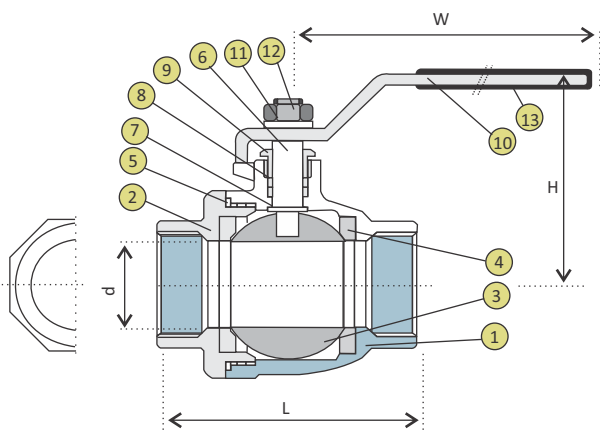
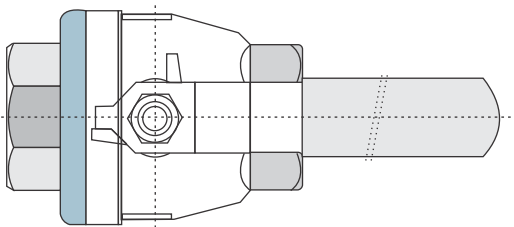


SCREWED END 2-PIECE DESIGN FULL PORT BALL VALVE RFBV-2IN 1/4" ~ 3"



OPTION :

- Locking device



STAINLESS STEEL

AISI-316 (DIN 1.4408) (ASTM-A315-CF8M)

ANSI-304 (DIN 1.4301) (ASTM-A351-CF8)

CARBON STEEL

S-45C (DIN 1.0619) (ASTM-A216-WCB)

FEATURES:

- Pipe thread in accordance with ANSI B2.1, BS 21 1973, DIN 259/2999, ISO 228
- 800psi (55 Bar) W.O.G. / 1000PSI (69 Bar) W.O.G.
- Blow-out proof stem / Full port
- Investment casting body and cap
- Material : ASTM-A351-CF8M; ASTM-A351-CF8

Material Specifications

NO.	COMPONENT	MATERIALS	
		RFBV-2IN	RFBV-2IN-C
1	BODY	ASTM - A351 - CF8M	ASTM-A216-WCB
2	CAP	ASTM - A351 - CF8M	ASTM-A216-WCB
3	BALL	ASTM - A351 - CF8M	ASTM - A351 - CF8M
4	BALL SEAT	15% R-PTFE	15% R-PTFE
5	JOINT GASKET	PTFE	PTFE
6	STEM	AISI 316	AISI 316
7	THRUST WASHER	PTFE	PTFE
8	STEM PACKING	PTFE	PTFE
9	GLAND NUT	AISI 304	AISI 304
10	HANDLE	AISI 304	AISI 304
11	SPRING WASHER	AISI 304	AISI 304
12	STEM NUT	AISI 304	AISI 304
13	PLASTIC COVER	PLASTIC	PLASTIC

Dimensions - Unit (mm)

DN		d	L	H	W	Cv
Inches	MM					FACTOR
1/4"	8	11.16	49	51	95	6.6
3/8"	10	12.7	49	51	95	7.9
1/2"	15	15	57	53	95	11.2
3/4"	20	20	65	59	100	21
1"	25	25.4	76	73	145	35
1 1/4"	32	32	90	78	145	57
1 1/2"	40	38	104	91	165	80
2"	50	50	121	99	195	148
2 1/2"	65	65	158	130	215	265
3"	80	80	185	142	215	415

All dimensions are nominal (indicative)
Actual dimensions may vary

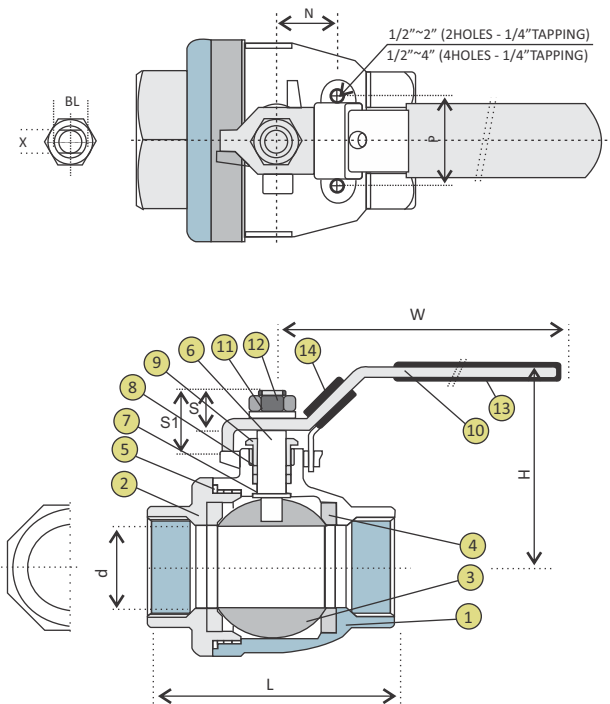


**SCREWED END
2-PIECE DESIGN FULL PORT BALL VALVE
RFAV-2E 1/4" ~ 4"**



OPTION :

- Locking device
- Drilling and Tapped Mounting Pad



STAINLESS STEEL

AISI – 316 (DIN 1.4408) (ASTM – A351 – CF8M)

AISI – 304 (DIN 1.4301) (ASTM – A351 – CF8)

CARBON STEEL

S-45C (DIN 1.0619) (ASTM – A216-WCB)

FEATURES:

- Pipe thread in accordance with ANSI B2.1, BS 21 1973, DIN 259/2999, ISO 228
- With Mounting Pad
- Blow-out proof stem / Full port
- Investment casting body and cap
- 1000 PSI (69 Bar) W.O.G.
- Lug body

Material Specifications

ITEM	COMPONENT	MATERIALS	
		RFAV-2E	RFAV-2EC
1	BODY	ASTM - A351 - CF8M	ASTM - A216 - WCB
2	CAP	ASTM - A351 - CF8M	ASTM - A216 - WCB
3	BALL	ASTM - A351 - CF8M	ASTM - A351 - CF8M
4	BALL SEAT	15% R-PTFE	15% R-PTFE
5	JOINT GASKET	PTFE	PTFE
6	STEM	AISI 316	AISI 316
7	THRUST WASHER	PTFE	PTFE
8	STEM PACKING	PTFE	PTFE
9	GLAND NUT	AISI 304	AISI 304
10	HANDLE	AISI 304	AISI 304
11	SPRING WASHER	AISI 304	AISI 304
12	STEM NUT	AISI 304	AISI 304
13	PLASTIC COVER	PLASTIC	PLASTIC
14	LOCK DEVICE	AISI 304	AISI 304

Dimensions - Unit (mm)

DN		d	L	H	W	S	S1	X	N	P	BL	Cv FACTOR
Inches	MM											
1/4"	8	11.6	44.5	51	95	16.8	10.2	5	12.5	25	5/16"	6.6
3/8"	10	12.7	44.5	51	95	16.8	10.2	5	12.5	25	5/16"	7.9
1/2"	15	15	57	53	95	16.8	10.2	5	12.5	25	5/16"	11.2
3/4"	20	20	65	59.5	110	21	13.5	6.5	21	24	3/8"	21
1"	25	25	76	73	135	24	16	8	22.5	33.5	7/16"	35
1 1/4"	32	32	87.5	79	135	25	16	8	23.5	38.1	7/16"	57
1 1/2"	40	38	102	90.5	165	26.5	17	9	23.5	38.1	1/2"	80
2"	50	50	123	98.5	165	26.5	17	9	23.5	38.1	1/2"	148
2 1/2"	65	65	156	130.5	215	41.5	29.5	12	35	56	3/4"	265
3"	80	80	184	142.5	215	41.5	29.5	12	35	56	3/4"	415
4"	100	100	250	173.5	325	47.5	36.5	16	50	63	1"	780

All dimensions are nominal (indicative)
Actual dimensions may vary

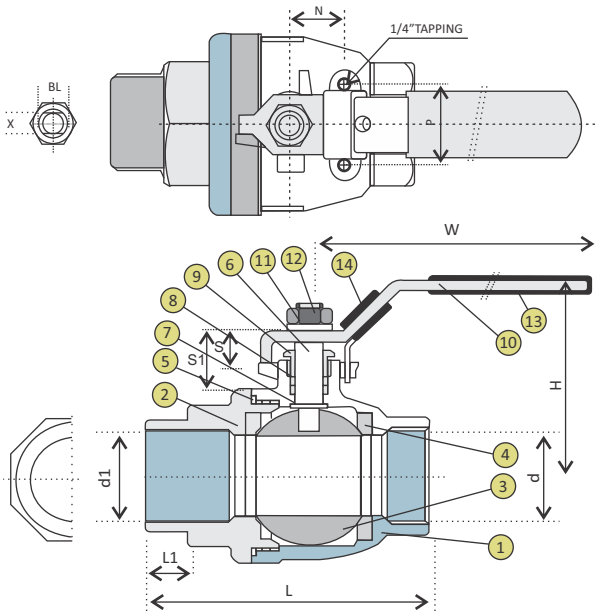


SCREWED END 2-PIECE DESIGN FULL PORT BALL VALVE RFBV-2NF 1/4" ~ 2"



OPTION :

- Locking device
- Drilling and Tapped Mounting Pad



INVESTMENT CASTING

Female x Male Screwed End

STAINLESS STEEL

AISI – 316 (DIN 1.4408) (ASTM – A351 – CF8M)

AISI – 304 (DIN 1.4301) (ASTM – A351 – CF8)

CARBON STEEL

S-45C (DIN 1.0619) (ASTM – A216-WCB)

FEATURES:

- Pipe thread in accordance with ANSI B2.1, BS 21 1973, DIN 259/2999, ISO 228
- With Mounting Pad
- Blow-out proof stem / Full port
- Investment casting body and cap
- 1000 PSI (69 Bar) W.O.G. / 2000 PSI (138Bar) W.O.G.
- Locking device, lug body

Material Specifications

ITEM	COMPONENT	MATERIALS	
		RFBV-2NF	RFBV-2NF-C
1	BODY	ASTM - A351 - CF8M	ASTM - A216 - WCB
2	CAP	ASTM - A351 - CF8M	ASTM - A216 - WCB
3	BALL	ASTM - A351 - CF8M	ASTM - A351 - CF8M
4	BALL SEAT	15% R-PTFE	15% R-PTFE
5	JOINT GASKET	PTFE	PTFE
6	STEM	AISI 316	AISI 316
7	THRUST WASHER	PTFE	PTFE
8	STEM PACKING	PTFE	PTFE
9	GLAND NUT	AISI 304	AISI 304
10	HANDLE	AISI 304	AISI 304
11	SPRING WASHER	AISI 304	AISI 304
12	STEM NUT	AISI 304	AISI 304
13	PLASTIC COVER	PLASTIC	PLASTIC
14	LOCK DEVICE	AISI 304	AISI 304

Dimensions - Unit (mm)

DN	d	d1	L	L1	H	W	S	S1	X	N	P	BL	Cv FACTOR	
1/4"	8	11.6	7	76.5	12.6	51	95	16.5	10.2	5	12.5	28.5	5/16"	6.6
3/8"	10	12.7	8.5	77.5	13.2	51	95	16.5	10.2	5	12.5	28.5	5/16"	7.9
1/2"	15	15	12.5	90	16.7	53	95	16.5	10.2	5	12.5	28.5	5/16"	11.2
3/4"	20	20	17.5	101	18.2	59	110	20	13.5	6.5	21	34.8	3/8"	21
1"	25	25	23.6	119	21	73	135	23.5	16	8	22.5	34.8	7/16"	35
1-1/4"	32	32	30.8	134	23.5	78	135	23.5	16	8	23.5	38.1	7/16"	57
1-1/2"	40	38	36.6	148	23.5	91	165	25.5	17	9	23.5	38.1	1/2"	80
2"	50	50	47.5	174	27.8	99	165	25.5	17	9	23.5	38.1	1/2"	148

All dimensions are nominal (indicative)
Actual dimensions may vary

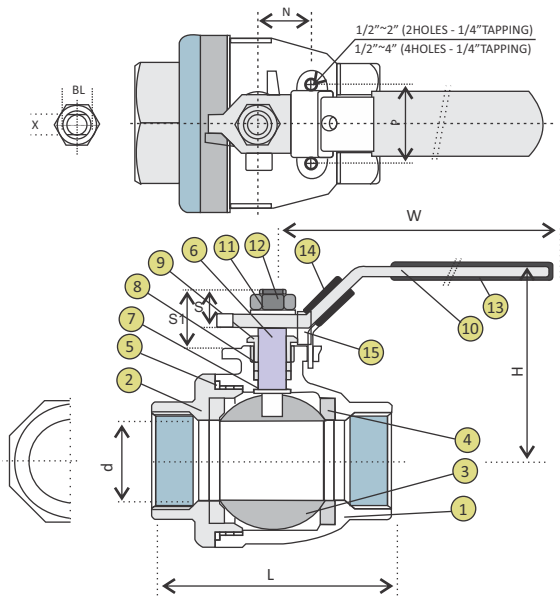


SCREWED END 2-PIECE DESIGN FULL PORT BALL VALVE RFBV-2 1/4" ~ 4"



OPTION :

- Locking device
- Drilling and Tapped Mounting Pad
- DIN Standard, M3 Length



STAINLESS STEEL

AISI – 316 (DIN 1.4408) (ASTM – A351 – CF8M)

AISI – 304 (DIN 1.4301) (ASTM – A351 – CF8)

CARBON STEEL

S-45C (DIN 1.0619) (ASTM – A216-WCB)

FEATURES:

- Pipe thread in accordance with ANSI B2.1, BS 21 1973, DIN 259/2999, ISO 228
- With Mounting Pad
- Blow-out proof stem / Full port
- Investment casting body and cap
- 1000 PSI (69 Bar) W.O.G. / 2000 PSI (138 Bar) W.O.G.
- Lug body

Material Specifications

ITEM	COMPONENT	MATERIALS	
		RFBV-2	RFBV-2C
1	BODY	ASTM - A351 - CF8M	ASTM - A216 - WCB
2	CAP	ASTM - A351 - CF8M	ASTM - A216 - WCB
3	BALL	ASTM - A351 - CF8M	ASTM - A351 - CF8M
4	BALL SEAT	15% R-PTFE	15% R-PTFE
5	JOINT GASKET	PTFE	PTFE
6	STEM	AISI 316	AISI 316
7	THRUST WASHER	PTFE	PTFE
8	STEM PACKING	PTFE	PTFE
9	GLAND NUT	AISI 304	AISI 304
10	HANDLE	AISI 304	AISI 304
11	SPRING WASHER	AISI 304	AISI 304
12	STEM NUT	AISI 304	AISI 304
13	PLASTIC COVER	PLASTIC	PLASTIC
14	LOCK DEVICE	AISI 304	AISI 304

Dimensions - Unit (mm)

DN		d	L	H	W	S	S1	X	N	P	BL	Cv
Inches	MM											FACTOR
1/4"	8	11.16	60.5	53	95	16.5	10.2	5	12.5	28.5	5/16"	6.6
3/8"	10	12.7	60.5	53	95	16.5	10.2	5	12.5	28.5	5/16"	7.9
1/2"	15	15	62.5	53	95	16.5	10.2	5	12.5	28.5	5/16"	11.2
3/4"	20	20	77	60	110	20	13.5	6.5	21	34.8	3/8"	21
1"	25	25.4	90	74	135	23.5	16	8	22.5	34.8	7/16"	35
1 1/4"	32	32	100	80	135	23.5	16	8	23.5	38.1	7/16"	57
1 1/2"	40	38	118	92	165	25.5	17	9	23.5	38.1	1/2"	80
2"	50	50.8	138	101	165	25.5	17	9	34	38.1	1/2"	150
2 1/2"	65	65	167	130	215	41	29.5	12	35	56	3/4"	265
3"	80	80	193	142	215	41	29.5	12	35	56	3/4"	415
4"	100	100	260	174	325	48	36.5	16	50	63	1"	780

All dimensions are nominal (indicative)
Actual dimensions may vary

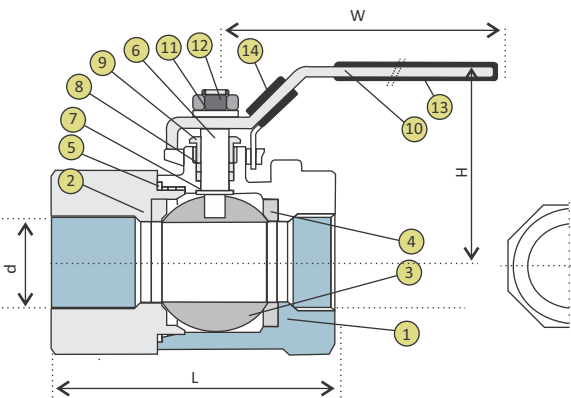
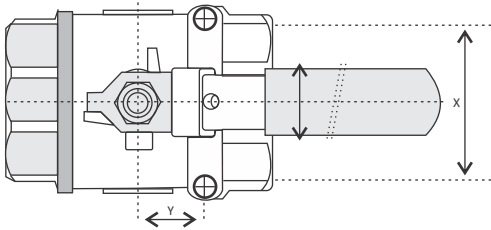


**SCREWED END
2-PIECE DESIGN FULL PORT BALL VALVE
RFBVA-2ER 1/2" ~ 2"**



OPTION :

- Locking device
- Drilling and Tapped Mounting Pad



INVESTMENT CASTING

2-PIECE STAINLESS STEEL, CARBON STEEL

BALL VALVE SCREWED ENDS

AISI – 316 (DIN 1.4408) (ASTM – A351 – CF8M)

AISI – 304 (DIN 1.4301) (ASTM – A351 – CF8)

FEATURES:

- Pipe thread in accordance with ANSI B2.1, BS21 1973, DIN 259/2999, ISO 228
- Lug body
- Blow-out proof stem / Full port
- Investment casting body and cap
- 2000 PSI (138 Bar) W.O.G. / 800 PSI (55 Bar) W.O.G.
- Material : ASTM – A351 – CF8M, ASTM – A351 – CF8

Material Specifications

ITEM	COMPONENT	MATERIALS	
		RFBVA-2ER	RFBVA-2ER-C
1	BODY	ASTM - A351 - CF8M	ASTM - A216 – WCB
2	CAP	ASTM - A351 - CF8M	ASTM - A216 – WCB
3	BALL	ASTM - A351 - CF8M	ASTM - A351 - CF8M
4	BALL SEAT	15% R-PTFE	15% R-PTFE
5	JOINT GASKET	PTFE	PTFE
6	STEM	AISI 316	AISI 316
7	THRUST WASHER	PTFE	PTFE
8	STEM PACKING	PTFE	PTFE
9	GLAND NUT	AISI 304	AISI 304
10	HANDLE	AISI 304	AISI 304
11	SPRING WASHER	AISI 304	AISI 304
12	STEM NUT	AISI 304	AISI 304
13	PLASTIC COVER	PLASTIC	PLASTIC
14	LOCK DEVICE	AISI 304	AISI 304

Dimensions - Unit (mm)

DN		d	L	H	W	X	Y	Cv FACTOR
Inches	MM							
1/2"	15	10	59.5	50.5	93	25	12.5	9.5
3/4"	20	15	60	52.9	93	25	12.5	14
1"	25	20	82	59.1	110	25	21	26
1 1/4"	32	25	91	65.1	110	33.5	22.5	43
1 1/2"	40	32	99	77.3	135	38.1	23.5	70
2"	50	40	120	86.9	135	38.1	23.5	102

All dimensions are nominal (indicative)
Actual dimensions may vary

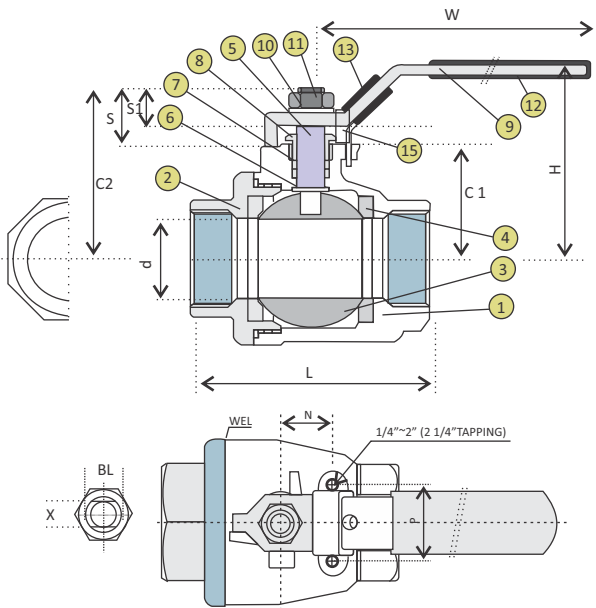


SCREWED END 2-PIECE DESIGN FULL PORT BALL VALVE RFBV-2W 1/4" ~ 2"



OPTION :

- Locking device
- Drilling and Tapped Mounting Pad



STAINLESS STEEL AISI – 316 (DIN 1.4408)
CARBON STEEL S45C (DIN 1.0619)

FEATURES:

- Pipe thread in accordance with ANSI B2.1, BS21 1973,
- DIN 259/2999, ISO 228
- Blow-out proof stem
- 3000 PSI (W.O.G.)
- Lug body
- With Mounting Pad

Material :

- ASTM – A351 – CF8M, ASTM – A351 – CF8 & ASTM – A216 – WCB

Material Specifications

ITEM	COMPONENT	MATERIALS	
		RFBV-2W	RFBV-2WC
1	BODY	ASTM - A351 - CF8M	ASTM - A216 – WCB
2	CAP	ASTM - A351 - CF8M	ASTM - A216 – WCB
3	BALL	ASTM - A351 - CF8M	ASTM - A351 - CF8M
4	BALL SEAT	15% R-PTFE	15% R-PTFE
5	STEM	AISI 316	AISI 316
6	THRUST WASHER	PTFE	PTFE
7	STEM PACKING	PTFE	PTFE
8	GLAND NUT	AISI 304	AISI 304
9	HANDLE	AISI 304	AISI 304
10	SPRING WASHER	AISI 304	AISI 304
11	STEM NUT	AISI 304	AISI 304
12	PLASTIC COVER	PLASTIC	PLASTIC
13	LOCK DEVICE	AISI 304	AISI 304

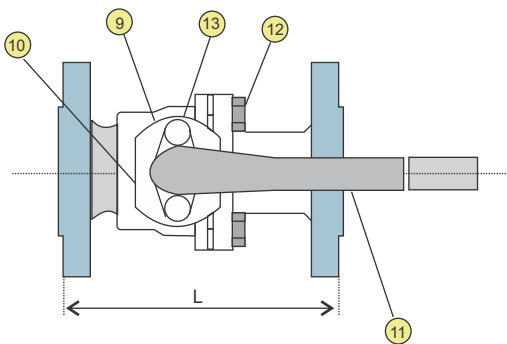
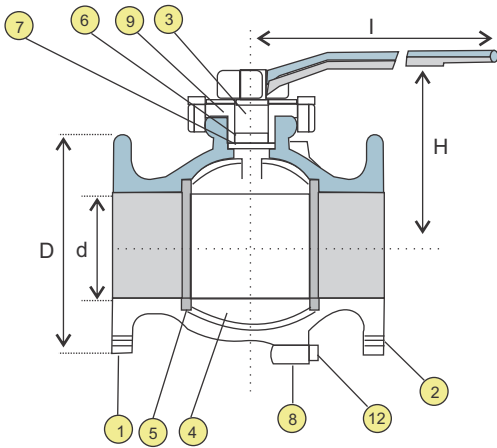
Dimensions - Unit (mm)

DN		d	L	H	W	S	S1	X	N	P	BL	Cv
Inches	MM											FACTOR
1/4"	8	11.16	60.5	53	95	16.5	10.2	5	12.5	28.5	5/16"	6.6
3/8"	10	12.7	60.5	53	95	16.5	10.2	5	12.5	28.5	5/16"	7.9
1/2"	15	15	62.5	53	95	16.5	10.2	5	12.5	28.5	5/16"	11.2
3/4"	30	20	77	60	110	20	13.5	6.5	21	34.8	3/8"	21
1"	25	25.4	90	74	135	23.5	16	8	22.5	34.8	7/16"	35
1 1/4"	32	32	100	80	135	23.5	16	8	23.5	38.1	7/16"	57
1 1/2"	40	38	118	92	165	25.5	17	9	23.5	38.1	1/2"	80
2"	50	50.8	138	101	165	25.5	17	9	34	38.1	1/2"	150

All dimensions are nominal (indicative)
Actual dimensions may vary



**FLANGED END
2-PIECE DESIGN FULL PORT BALL VALVE
RFBAV-2F-150 1/2" ~ 12"**



**ANSI CLASS 150
STAINLESS STEEL & CARBON STEEL**

FEATURES:

- 2-piece Flanged Ball Valves
- Body & Cap in ASTM-A351-CF8M, ASTM-A351-CF8, ASTM-A216-WCB
- Trim in AISI 316
- Flange : ANSI B16.5 Class 150
- Face to Face : ANSI B16.10
- Anti-static device, fire safe design
- Blow-out proof stem, lever operated
- Full port solid ball

Material Specifications

NO.	COMPONENT	MATERIALS		
1	BODY	ASTM-A351-CF8	ASTM-A351-CF8M	ASTM-A216-WCB
2	BODY CAP	ASTM-A351-CF8	ASTM-A351-CF8M	ASTM-A216-WCB
3	STEM	ASTM-A351-CF8	ASTM-A351-CF8M	ASTM-A351-CF8
4	BALL	ASTM-A351-CF8	ASTM-A351-CF8M	ASTM-A351-CF8
5	BALL SEAT	TEFLON	TEFLON	TEFLON
6	CLAND PACKING	ASTM-A351-CF8	ASTM-A351-CF8M	ASTM-A216-WCB
7	STEM SEAL	TEFLON	TEFLON	TEFLON
8	JOINT GASKET	TEFLON	TEFLON	TEFLON
9	GLAND FLANGE	ASTM-A351-CF8	ASTM-A351-CF8	FC
10	TRAVEL STOPPER	ASTM-A351-CF8	ASTM-A351-CF8	SS 41
11	HANDLE	FC-20	FC-20	FC-20
12	GLAND BOLT	ASTM-A351-CF8	ASTM-A351-CF8	SS 41
13	BODY & CAP NUT	ASTM-A351-CF8	ASTM-A351-CF8	SS 41
14	BOHY & CAP BOLT	ASTM-A351-CF8	ASTM-A351-CF8	SS 41

Dimensions - Unit (mm)

DN		d	L	D	H	I	H1
Inch	mm						
1/2"	15	15	108	89	81	114	34
3/4"	20	20	117	99	86	114	34
1"	25	25	127	108	85	146	34
1-1/4"	32	32	140	117	70	146	34
1-1/2"	40	40	165	127	110	229	44
2"	50	50	178	152	118	229	47
2-1/2"	65	64	190	178	142	340	55
3"	80	78	203	190	155	340	55
4"	100	98	230	229	170	340	55
5"	125	123	356	254	218	380	70
6"	150	148	394	279	236	510	70
8"	200	200	457	343	265	720	70
10"	250	250	533	406	340	1000	85
12"	300	298	620	483	382	1000	90

All dimensions are nominal (indicative)
Actual dimensions may vary

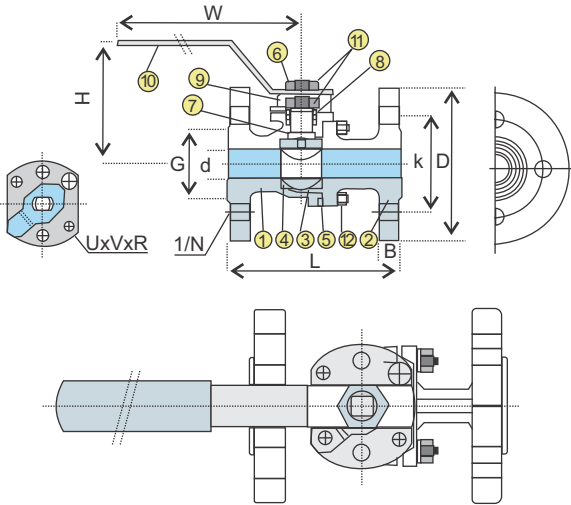


FLANGED END 2-PIECE DESIGN FULL PORT BALL VALVE RFBV-2F (PN16, PN40) 1/2" ~ 10"



OPTION :

- Fixed Handle



DIN PN16, DIN PN40 STAINLESS STEEL ASTM A351-CF8M FLANGED END FULL PORT BALL VALVE

FEATURES:

- 2-piece Flanged Ball Valves
- Body & Cap in ASTM A351-CF8M
- Trim in AISI 316
- Seats in PTFE
- Flange : DIN 2633 PN16 / DIN 2635 PN40
- Face to Face : DIN 3202 F1/F4/F5
- Anti-static device, fire safe design
- Blow-out proof stem, lever operated
- Full port, solid ball
- Mounting Pad ISO 5211

Material Specifications

NO.	COMPONENT	MATERIALS	
1	BODY	ASTM A351-CF8M	ASTM-A216-WCB
2	CAP	ASTM A351-CF8M	ASTM-A216-WCB
3	BALL	ASTM A351-CF8M	ASYM-A351-CF8
4	BALL SEAT	PTFE	PTFE
5	JOINT	PTFE	PTFE
6	STEM	AISI 316	AISI 316
7	THRUST WASHER	PTFE	PTFE
8	STEM	PTFE	PTFE
9	STOPPER	AISI 304	AISI 304
10	HANDLE	AISI 304	AISI 304
11	HANDLE NUT	AISI 304	AISI 304
12	BOLT & NUT	AISI 304	AISI 304

All dimensions are nominal (indicative)
Actual dimensions may vary

Dimensions - Unit (mm)

DN		d	ISO 5211	L (DIN3202)			DIN PN16					DIN PN40					H	W
Inch	mm		U x V x R	F1	F4	F5	K		B	I/N	K		B	I/N				
1/2"	15	15	4-42xM5xP0.8	130	115		95	65	45	14	14/4	95	65	45	16	14/4	74	170
3/4"	20	20	4-42xM5xP0.8	150	120		105	75	58	16	14/4	105	75	58	18	14/4	77	170
1"	25	25	4-42xM5xP0.8	160	125		115	85	68	16	14/4	115	85	68	18	14/4	83	170
1-1/4"	32	31.8	4-50xM6xP1.0	180	130		140	100	78	16	18/4	140	100	78	18	18/4	88	170
1-1/2"	40	38	4-70xM8xP1.25	200	140		150	110	88	16	18/4	150	110	88	18	18/4	123	250
2"	50	50.8	4-70xM8xP1.25	230	150		165	125	102	18	18/4	165	125	102	20	18/4	132	250
2-1/2"	65	65	4-102xM10xP1.5	290	170		185	145	122	18	18/4	185	145	122	22	18/8	157	320
3"	80	80	4-102xM10xP1.5	310	180		200	160	138	20	18/8	200	160	138	24	18/8	166	365
4"	100	100	4-102xM10xP1.5	350	190		220	180	158	20	18/8	325	190	162	24	22/8	182	365
5"	125	125	4-125xM12xP1.75	400	-	325	250	210	188	22	18/8	270	220	188	26	26/8	225	500
6"	150	150	4-125xM12xP1.75	480	-	350	285	240	212	22	22/8	300	250	218	28	26/8	240	600
8"	200	200	4-125xM12xP1.75	600	-	400	340	295	268	24	22/8	375	320	285	34	30/12	310	700
10"	250	250	4-140xM16xP2.0	730	-	450	405	355	320	26	22/12	450	385	345	38	30/12	325	800

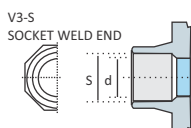
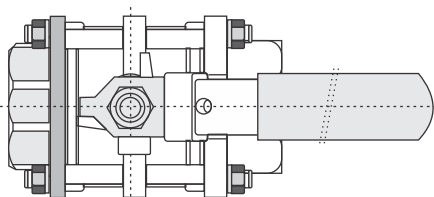
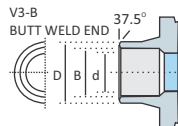
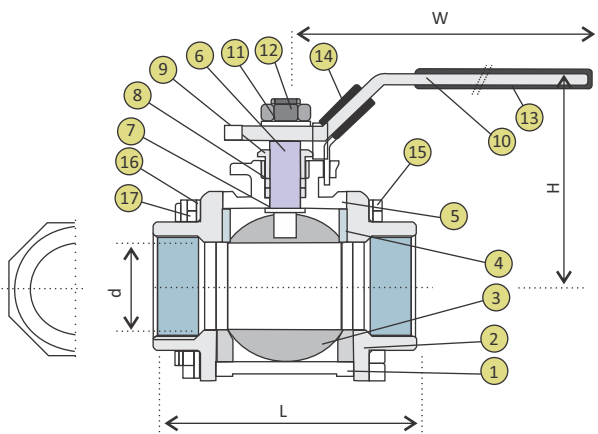


SCREWED END, BUTT WELD END, SOCKET WELD END 3-PIECE DESIGN FULL PORT BALL VALVE RFBV-3 1/4" ~ 4"



OPTION :

- Locking device
- DIN Standard, M3 Length



STAINLESS STEEL AISI – 316 (DIN 1.4408)
CARBON STEEL S-45C (DIN 1.0619)

FEATURES:

- Pipe thread in accordance with ANSI B2.1, BS21 1973, DIN 259/2999, ISO 228
- Lug body
- Blow-out proof stem / Full port
- Investment casting body and cap
- 1000 PSI (69 Bar) W.O.G. /1500
- PSI (103 Bar) W.O.G.
- Material : ASTM – A351 – CF8M, ASTM – A351 – CF8 & ASTM – A216 - WCB

Material Specifications

ITEM	COMPONENT	MATERIALS	
		RFBV-3	RFBV-3-C
1	BODY	ASTM - A351 - CF8M	ASTM - A216 - WCB
2	CAP	ASTM - A351 - CF8M	ASTM - A216 - WCB
3	BALL	ASTM - A351 - CF8M	ASTM - A351 - CF8M
4	BALL SEAT	15% R-PTFE	15% R-PTFE
5	JOINT GASKET	PTFE	PTFE
6	STEM	AISI 316	AISI 316
7	THRUST WASHER	PTFE	PTFE
8	STEM PACKING	PTFE	PTFE
9	GLAND NUT	AISI 304	AISI 304
10	HANDLE	AISI 304	AISI 304
11	STEM WASHER	AISI 304	AISI 304
12	STEM NUT	AISI 304	AISI 304
13	PLASTIC COVER	PLASTIC	PLASTIC
14	LOCK DEVICE	AISI 304	AISI 304
15	BOLT	AISI 304	AISI 304
16	SPRING WASHER	AISI 304	AISI 304
17	HEX NUT	AISI 304	AISI 304

Dimensions - Unit (mm)

DN		d	L	H	W	B	D	S	Cv FACTOR
Inches	MM								
1/4"	8	11.6	65	51	95	12	18	14.1	6.6
3/8"	10	12.7	65	51	95	14	18	17.6	7.9
1/2"	15	15	66	55	95	17.1	22	21.7	11.2
3/4"	20	20	81	60	110	22.5	27.5	27.1	21
1"	25	25.4	95	74	135	28	33.5	33.8	35
1 1/4"	32	32	109	80	135	33.5	44	42.6	57
1 1/2"	40	38	129	92	165	43	50	48.7	80
2"	50	50.8	142	101	180	53	62	61.1	150
2 1/2"	65	65	180	130	215	65	76	76.9	265
3"	80	80	206	142	215	80	92	89.8	415
4"	100	100	261	174	325	100	115	115.4	780

All dimensions are nominal (indicative)
 Actual dimensions may vary

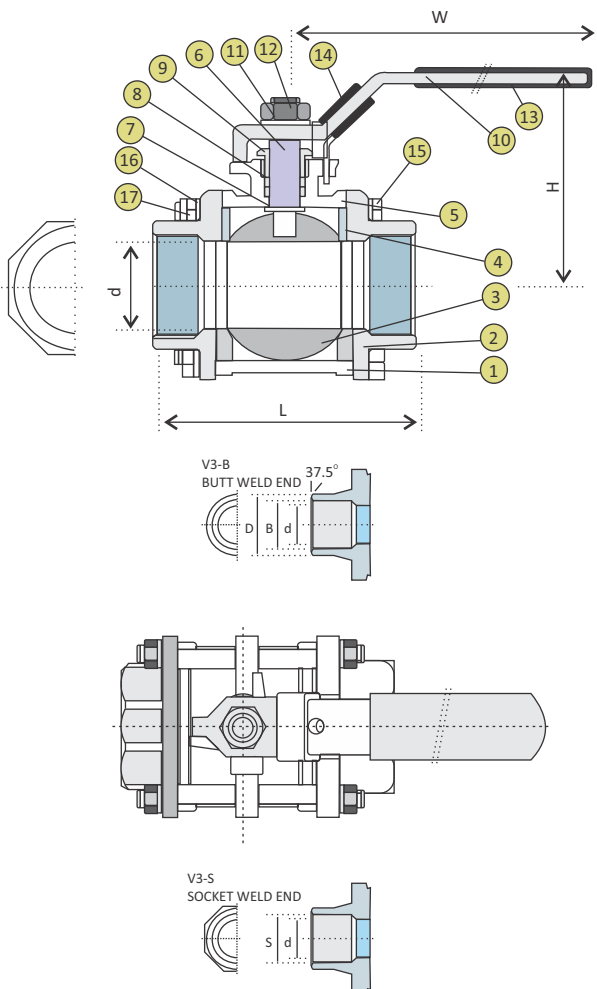


**SCREWED END, BUTT WELD END, SOCKET WELD END
3-PIECE DESIGN FULL PORT BALL VALVE
RFBV-3N 1/4" ~ 4"**



OPTION :

- Locking Device



**STAINLESS STEEL AISI – 316 (DIN 1.4408)
CARBON STEEL S-45C (DIN 1.0619)**

FEATURES:

- Pipe thread in accordance with ANSI B2.1, BS21 1973, DIN 259/2999, ISO 228
- Lug body
- Blow-out proof stem / Full port
- Investment casting body and cap
- 1000 PSI (69 Bar) W.O.G.
- Material : ASTM – A351 – CF8M, ASTM – A351 – CF8 & ASTM – A216 - WCB

Material Specifications

ITEM	COMPONENT	MATERIALS	
		RFBV-3N	RFBV-3N-C
1	BODY	ASTM - A351 - CF8M	ASTM - A216 - WCB
2	CAP	ASTM - A351 - CF8M	ASTM - A216 - WCB
3	BALL	ASTM - A351 - CF8M	ASTM - A351 - CF8M
4	BALL SEAT	15% R-PTFE	15% R-PTFE
5	JOINT GASKET	PTFE	PTFE
6	STEM	AISI 316	AISI 316
7	THRUST WASHER	PTFE	PTFE
8	STEM PACKING	PTFE	PTFE
9	GLAND NUT	AISI 304	AISI 304
10	HANDLE	AISI 304	AISI 304
11	STEM WASHER	AISI 304	AISI 304
12	STEM NUT	AISI 304	AISI 304
13	PLASTIC COVER	PLASTIC	PLASTIC
14	LOCK DEVICE	AISI 304	AISI 304
15	BOLT	AISI 304	AISI 304
16	SPRING WASHER	AISI 304	AISI 304
17	HEX NUT	AISI 304	AISI 304

Dimensions - Unit (mm)

DN		d	L	H	W	B	D	S	Cv FACTOR
Inches	MM								
1/4"	8	11.6	59	51	95	12	18	14.1	6.6
3/8"	10	12.7	59	51	95	14	18	17.6	7.9
1/2"	15	15	64	55	95	17.1	22	21.7	11.2
3/4"	20	20	75	59	110	22.5	27.5	27.1	21
1"	25	25	86	73	135	28	33.5	33.8	34
1 1/4"	32	32	99	78	135	33.5	44	42.6	57
1 1/2"	40	38	113	91	165	43	50	48.7	80
2"	50	50.8	132	99	165	53	61.5	61.1	148
2 1/2"	65	65	164	130	215	65	76	76.9	265
3"	80	80	183	142	215	80	92	89.8	415
4"	100	100	232	174	325	100	115	115.4	780

All dimensions are nominal (indicative)
Actual dimensions may vary

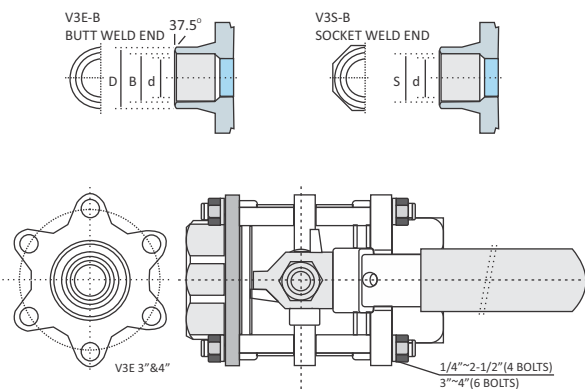
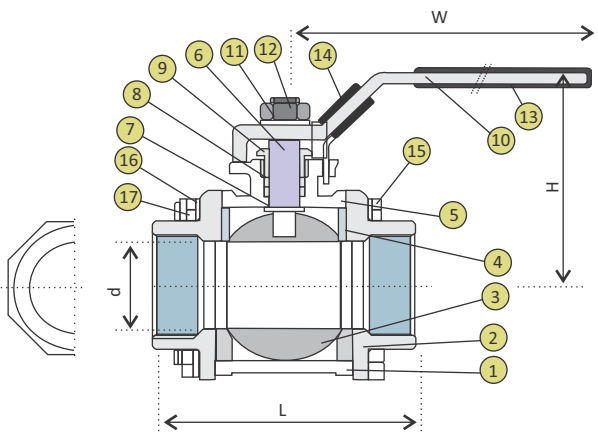


SCREWED END, BUTT WELD END, SOCKET WELD END 3-PIECE DESIGN FULL PORT BALL VALVE RFBVAV-3E 1/4" ~ 4"



OPTION :

- Locking device



STAINLESS STEEL AISI – 316 (DIN 1.4408)
CARBON STEEL S-45C (DIN 1.0619)

FEATURES:

- Pipe thread in accordance with ANSI B2.1, BS21 1973, DIN 259/2999, ISO 228
- Lug body
- Blow-out proof stem / Full port
- Investment casting body and cap
- 1000 PSI (69 BAR) W.O.G.
- Material : ASTM – A351 – CF8M, ASTM – A351 – CF8 & ASTM – A216 - WCB

Material Specifications

ITEM	COMPONENT	MATERIALS	
		RFBVAV-3E	RFBVAV-3E-C
1	BODY	ASTM - A351 - CF8M	ASTM - A216 - WCB
2	CAP	ASTM - A351 - CF8M	ASTM - A216 - WCB
3	BALL	ASTM - A351 - CF8M	ASTM - A351 - CF8M
4	BALL SEAT	15% R-PTFE	15% R-PTFE
5	JOINT GASKET	PTFE	PTFE
6	STEM	AISI 316	AISI 316
7	THRUST WASHER	PTFE	PTFE
8	STEM PACKING	PTFE	PTFE
9	GLAND NUT	AISI 304	AISI 304
10	HANDLE	AISI 304	AISI 304
11	STEM WASHER	AISI 304	AISI 304
12	STEM NUT	AISI 304	AISI 304
13	PLASTIC COVER	PLASTIC	PLASTIC
14	LOCK DEVICE	AISI 304	AISI 304
15	BOLT	AISI 304	AISI 304
16	SPRING WASHER	AISI 304	AISI 304
17	HEX NUT	AISI 304	AISI 304

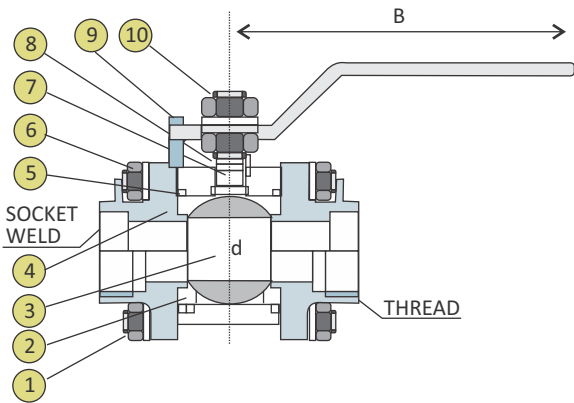
Dimensions - Unit (mm)

Inches	DN	MM	d	L	H	W	B	D	S	Cv
										FACTOR
1/4"	8	11.6	54	51	95	12	18	14.1	6.6	
3/8"	10	12.7	54	51	95	12.52	18	17.6	7.9	
1/2"	15	15	61.5	55	95	15.8	22	21.7	11.2	
3/4"	20	20	71	58.5	110	20.93	28	27.2	21	
1"	25	25	83.5	73	135	26.64	34	33.9	34	
1 1/4"	32	32	97	78.5	135	35.05	44	42.6	57	
1 1/2"	40	38	110.5	90.5	165	40.9	50	48.7	80	
2"	50	50	129	99	165	52.5	61.5	61.1	148	
2 1/2"	65	65	171.5	127	215	69	76	76.9	265	
3"	80	80	200	136	215	82	90	89.8	415	
4"	100	100	252	172	325	106	115	115.4	780	

All dimensions are nominal (indicative)
Actual dimensions may vary



3-PIECE DESIGN BALL VALVE 800LB - 1500LB RFBAV-3-800 3/8" - 2"



FEATURES:

- Extended lever for easy operation
- Grease jet joint
- Body and bonnet
- Full bore or reduced bore
- End connections
- Self lubrication bearing
- Anti-static
- Fire safe, design to API 607 or BS 6755

Material Specifications

ITEM	COMPONENT	CS to ASTM		SS to ASTM	
		A105/F6	A105/F6	F304(L)	F316(L)
1	NUT	A194 2H	A194 2H	A194 8M	A194 8M
2	SEAT	PTFE/PPL			
3	BALL	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
4	BODY	A105N	A105N	A182 F304(L)	A182 F316(L)
5	STEM	A182 F410	A182 F304	A182 F304(L)	A182 F316(L)
6	BOLT	A193 B7	A193 B7	A193 B8	A193 B8M
7	PACKING	PTFE/PPL			
8	GLAND	A276 410	A276 304	A182 F304(L)	A182 F316(L)
9	PIN	A193 B7	A193 B7	A193 B8	A193 B8M
10	NUT	A194 2H	A194 2H	A194 8	A194 8M

Dimensions - Unit (mm)

DN		L1	B	d	
Inches	DN			CLASS 800LB	CLASS 1500LB
3/8"	10	92	130	10	10
1/2"	15	92	130	15	13
3/4"	20	111	155	19	17
1"	25	127	185	24	23
1 1/4"	32	140	200	30	28
1 1/2"	40	152	220	39	37
2"	50	152	220	49	45

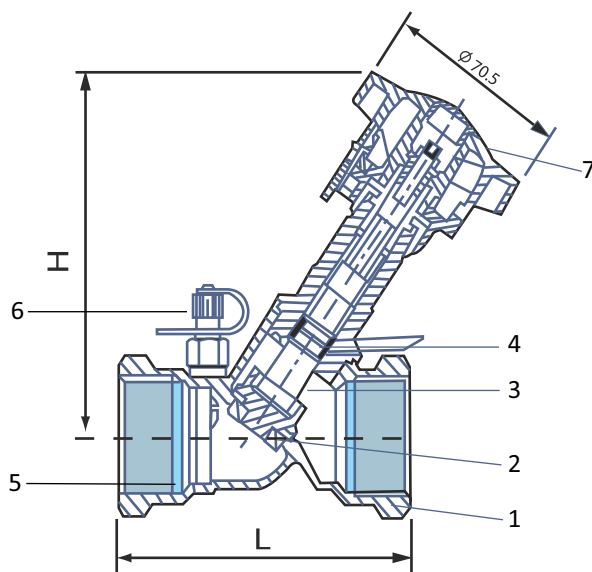
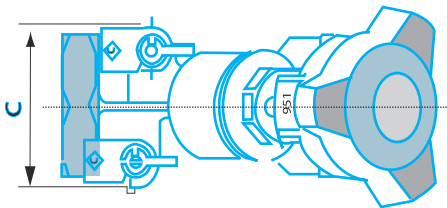
All dimensions are nominal (indicative)
Actual dimensions may vary



BRONZE FIXED ORIFICE DOUBLE REGULATING VALVE

BS 7350 PN25

RFDRV25-FO 1/2" - 2"



Features:

- Designed to BS7350
- Pressure Rating: PN25
- Working Medium: Water, Oil, Steam
- Handwheel operated
- Numerical Indicator with memory stop feature
- Inside Screw non-rising hand wheel, Y pattern, Fixed Orifice
- Characterized regulating disc
- Integral DZR Brass orifice plate
- Supplied with 2 test points
- BS21 Taper Threaded (ISO 7) / BS EN10226-2
- Available with NPT Threads, subject to minimum quantities
- Hydrostatic Test Pressure
 - Shell - 37.5 bar
 - Seat - 27.5 bar
- Superior to variable orifice DRV due to higher accuracy from integral fixed orifice
- Flow reading across fixed orifice +/-5%
- Valve must be installed fully in accordance with instructions

Material Specifications

Sl.	Component	Material
1	Body	Bronze CC491K
2	Disc	DZR Brass CW602N
3	Stem	DZR Brass CW602N
4	Bonnet (1/2" - 1 1/4")	DZR Brass CW602N
	Bonnet (1 1/2" - 2")	Bronze CC491K
5	Orifice Plate	DZR Brass CW602N
6	Test Points	DZR Brass CW602N
7	Hand wheel	Plastic

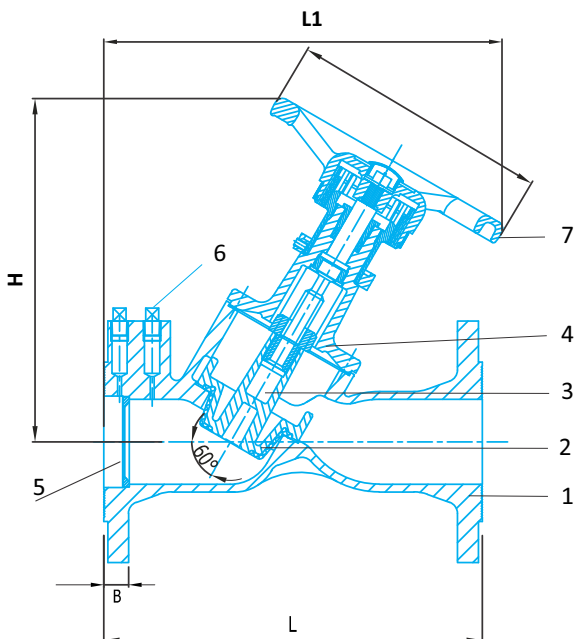
Dimensions - Unit (mm)

DN		L	H	C
Inches	MM			
1/2"	15	87	105	46
3/4"	20	96	106	51
1"	25	100	127	56
1 1/4"	32	114	128	57
1 1/2"	40	125	143	61
2"	50	146	144	75

All dimensions are nominal (indicative)
Actual dimensions may vary



DUCTILE IRON FIXED ORIFICE DOUBLE REGULATING VALVE
BS 7350 PN16
RFDRV16-FO 2½" - 12"



Features:

- Designed to BS7350
- Pressure Rating: PN16
- Working Medium: Water, Oil, Steam
- Flanged to BS4504 / BS EN1092-2
- Non-rising stem, Y pattern, fixed orifice
- Numerical indicator and memory stop feature
- EPDM coated disc
- Bolted bonnet
- DZR Brass integrated orifice plate
- Supplied with 2 DZR Brass test points
- Other flange standards available upon request
- Other pressure ratings available upon request
- ANSI standards available upon request
- Hydrostatic Test Pressure
 - Shell - 24 bar
 - Seat - 17.6 bar
- Superior to variable orifice DRV due to higher accuracy from integral fixed orifice
- Flow reading across fixed orifice +/-5%
- Valve must be installed fully in accordance with instructions

Material Specifications

Sl.	Component	Material
1	Body	Ductile Iron
2	Disc	DI +EPDM
3	Stem	SS410
4	Bonnet	Ductile Iron
5	Orifice Plate	DZR Brass CW602N
6	Plugs	Steel
7	Hand wheel	Ductile Iron

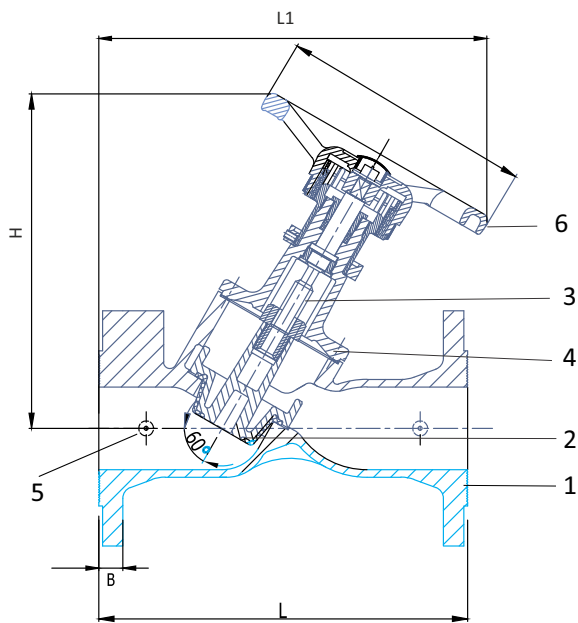
Dimensions - Unit (mm)

DN		H	L	L1	B
Inches	mm				
2½"	65	265	290	310	19
3"	80	370	310	320	19
4"	100	310	350	360	19
5"	125	340	400	415	19
6"	150	350	480	445	19
8"	200	537	600	620	20
10"	250	591	730	720	22
12"	300	690	850	875	24.5

All dimensions are nominal (indicative)
Actual dimensions may vary



DUCTILE IRON VARIABLE ORIFICE DOUBLE REGULATING VALVE
BS 7350 PN16
RFDRV16-VO 2½" - 12"



Features:

- Designed to BS7350
- Pressure Rating: PN16
- Working Medium: Water, Oil, Steam
- Flanged to BS4504 / BS EN1092-2
- Non-rising stem, Y pattern, variable orifice
- Numerical indicator and memory stop feature
- EPDM coated disc
- Bolted bonnet
- Supplied with 2 DZR Brass test points
- Other flange standards available upon request
- Other pressure ratings available upon request
- ANSI standards available upon request
- Hydrostatic Test Pressure
 - Shell - 24 bar
 - Seat - 17.6 bar
- Flow reading across fixed orifice +/-10%
- Valve must be installed fully in accordance with instructions

Material Specifications

Sl.	Component	Material
1	Body	Ductile Iron
2	Disc	DI +EPDM
3	Stem	SS410
4	Bonnet	Ductile Iron
5	Plugs	Steel
6	Hand wheel	Ductile Iron

Dimensions - Unit (mm)

DN		H	L	L1	B
Inches	mm				
2½"	65	265	290	310	19
3"	80	370	310	320	19
4"	100	310	350	360	19
5"	125	340	400	415	19
6"	150	350	480	445	19
8"	200	537	600	620	20
10"	250	591	730	720	22
12"	300	690	850	875	24.5

All dimensions are nominal (indicative)
Actual dimensions may vary



DUCTILE IRON FIXED ORIFICE DOUBLE REGULATING VALVE
BS 7350 PN25
RFDRV25-FO 2½" - 18"



Features:

- Designed to BS7350
- Pressure Rating: PN25
- Working Medium: Water, Oil, Steam
- Flanged to BS4504 / BS EN1092-2
- Non-rising stem, Y pattern, fixed orifice
- Numerical indicator and memory stop feature
- EPDM coated disc
- Bolted bonnet
- DZR Brass integrated orifice plate
- Supplied with 2 DZR Brass test points
- Other flange standards available upon request
- Other pressure ratings available upon request
- ANSI standards available upon request
- Hydrostatic Test Pressure
 - Shell - 37.5 bar
 - Seat - 27.5 bar
- Superior to variable orifice DRV due to higher accuracy from integral fixed orifice
- Flow reading across fixed orifice +/-5%
- Valve must be installed fully in accordance with instructions

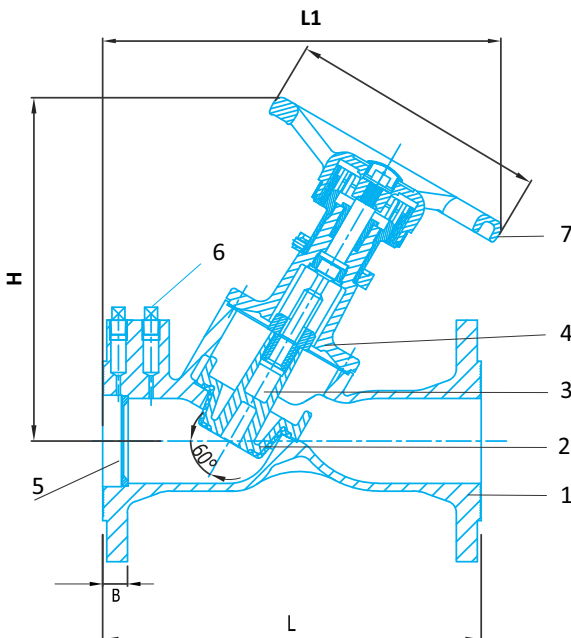
Material Specifications

Sl.	Component	Material
1	Body	Ductile Iron
2	Disc	DI +EPDM
3	Stem	SS410
4	Bonnet	Ductile Iron
5	Orifice Plate	DZR Brass CW602N
6	Plugs	Steel
7	Hand wheel	Ductile Iron

Dimensions - Unit (mm)

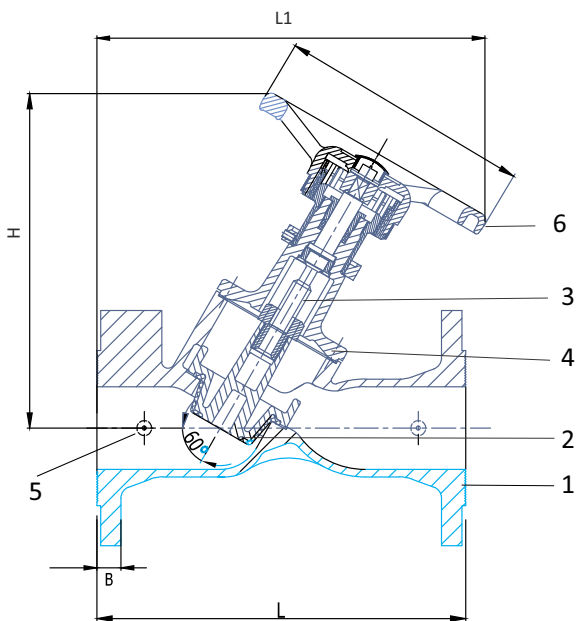
DN		H	L	L1	B
Inches	mm				
2½"	65	265	290	310	19
3"	80	370	310	320	19
4"	100	310	350	360	19
5"	125	340	400	415	19
6"	150	350	480	445	20
8"	200	537	600	620	22
10"	250	591	730	720	24.5
12"	300	690	850	875	27.5
14"	350	730	980	980	30
16"	400	780	1100	1080	32
18"	450	820	1200	1150	34.5

All dimensions are nominal (indicative)
Actual dimensions may vary





DUCTILE IRON VARIABLE ORIFICE DOUBLE REGULATING VALVE
BS 7350 PN25
RFDRV25-VO 2½" - 18"



Features:

- Designed to BS7350
- Pressure Rating: PN25
- Working Medium: Water, Oil, Steam
- Flanged to BS4504 / BS EN1092-2
- Non-rising stem, Y pattern, variable orifice
- Numerical indicator and memory stop feature
- EPDM coated disc
- Bolted bonnet
- Supplied with 2 DZR Brass test points
- Other flange standards available upon request
- Other pressure ratings available upon request
- ANSI standards available upon request
- Hydrostatic Test Pressure
 - Shell - 37.5 bar
 - Seat - 27.5 bar
- Flow reading across fixed orifice +/-10%
- Valve must be installed fully in accordance with instructions

Material Specifications

Sl.	Component	Material
1	Body	Ductile Iron
2	Disc	DI +EPDM
3	Stem	SS410
4	Bonnet	Ductile Iron
5	Plugs	Steel
6	Hand wheel	Ductile Iron

Dimensions - Unit (mm)

DN		H	L	L1	B
Inches	mm				
2½"	65	265	290	310	19
3"	80	370	310	320	19
4"	100	310	350	360	19
5"	125	340	400	415	19
6"	150	350	480	445	20
8"	200	537	600	620	22
10"	250	591	730	720	24.5
12"	300	690	850	875	27.5
14"	350	730	980	980	30
16"	400	780	1100	1080	32
18"	450	820	1200	1150	34.5

All dimensions are nominal (indicative)
Actual dimensions may vary

DUCTILE IRON BUTTERFLY VALVE, SEMI LUGGED, LEVER OPERATED

BS EN593 PN16
RFBU160 2½" - 6"



Features:

- Designed to BS EN593
- Pressure Rating: PN16
- Working Medium: Water, Oil, Steam
- Face to Face: BS EN558-1 basic series 20
- Flanged to BS4504 / BS EN1092-2
- Top flange confirm to ISO 5211
- Electric / Pneumatic actuators available
- Suitable to mount between PN16 flanges
- Replaceable liner
- EPDM lined
- Semi lugged design, wafer type
- Can be supplied with locking device and position indicator upon request
- Other flange standards available upon request
- Other pressure ratings available upon request
- ANSI standards available upon request
- Hydrostatic Test Pressure
 - Shell - 24 bar
 - Seat - 17.6 bar

Material Specifications

Sl.	Component	Material
1	Body	Ductile Iron
2	Disc	DI NP / SS / AB
3	Stem	SS416
4	Seat	EPDM
5	Bushing	PTFE
6	Lever	Cast Iron

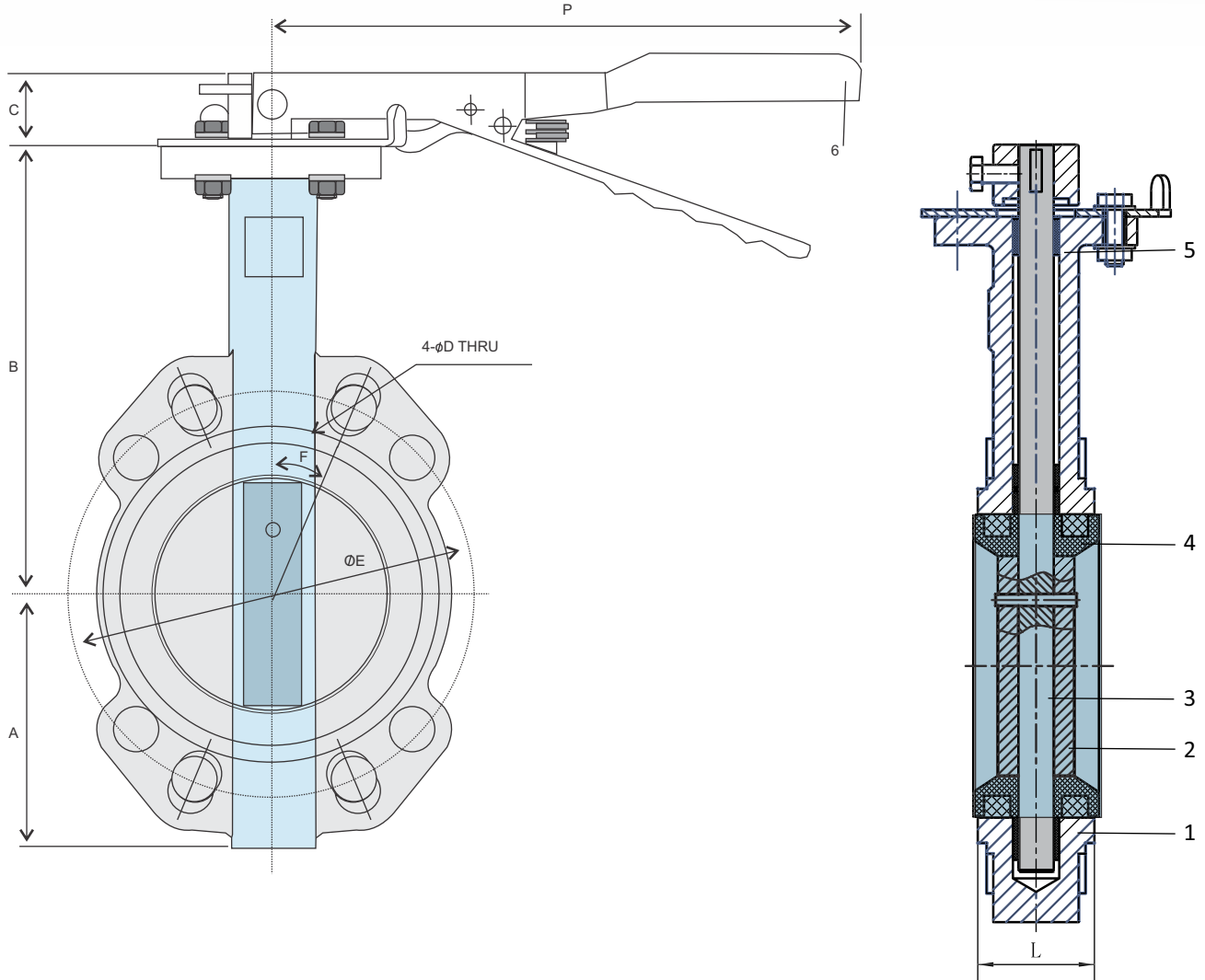
Dimensions - Unit (mm) - For dimension drawing, please refer next page

DN		A	B	C	D	E	F	H	I	K	L	P
Inches	mm											
2½"	65	89	174	32	18	145	45	65	50	7	45	230
3"	80	95	181	32	18	160	22.5	65	50	7	45	230
4"	100	114	200	32	18	180	22.5	90	70	9.5	52	260
5"	125	127	213	32	18	210	22.5	90	70	9.5	54	260
6"	150	139	225	32	22	240	22.5	90	70	9.5	56	260

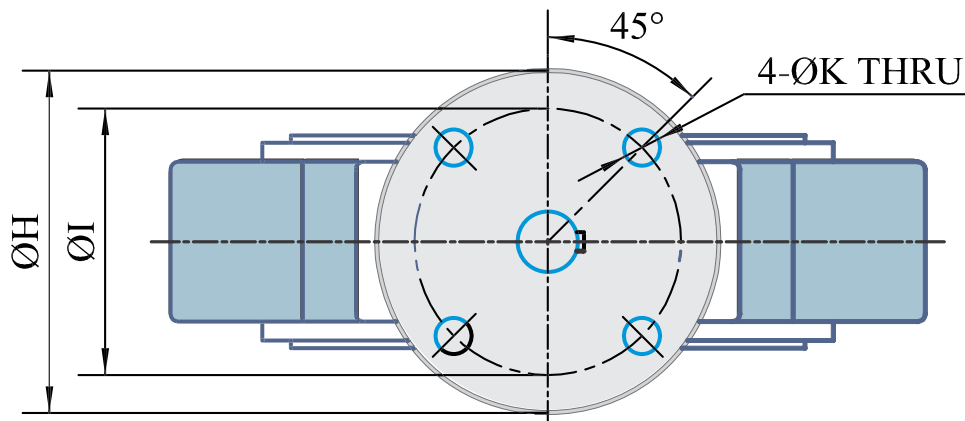
All dimensions are nominal (indicative)
Actual dimensions may vary



DUCTILE IRON BUTTERFLY VALVE, SEMI LUGGED, LEVER OPERATED BS EN593 PN16



Disassembly Lever and Locking Plate





DUCTILE IRON BUTTERFLY VALVE, SEMI LUGGED, GEAR OPERATED BS EN593 PN16 RFBU160 6" - 24"



Features:

- Designed to BS EN593
- Pressure Rating: PN16
- Working Medium: Water, Oil, Steam
- Face to Face: BS EN558-1 basic series 20
- Flanged to BS4504 / BS EN1092-2
- Top flange confirm to ISO 5211
- Optional chain wheel operator available
- Electric / Pneumatic actuators available
- Suitable to mount between PN16 flanges
- Replaceable liner
- EPDM lined
- Semi lugged design, wafer type
- Can be supplied with locking device and position indicator upon request
- Other flange standards available upon request
- Other pressure ratings available upon request
- ANSI standards available upon request
- Hydrostatic Test Pressure
 - Shell - 24 bar
 - Seat - 17.6 bar

Material Specifications

Sl.	Component	Material
1	Body	Ductile Iron
2	Disc	DI NP / SS / AB
3	Stem	SS416
4	Seat	EPDM
5	Bushing	PTFE
6	Gear Box	Ductile Iron

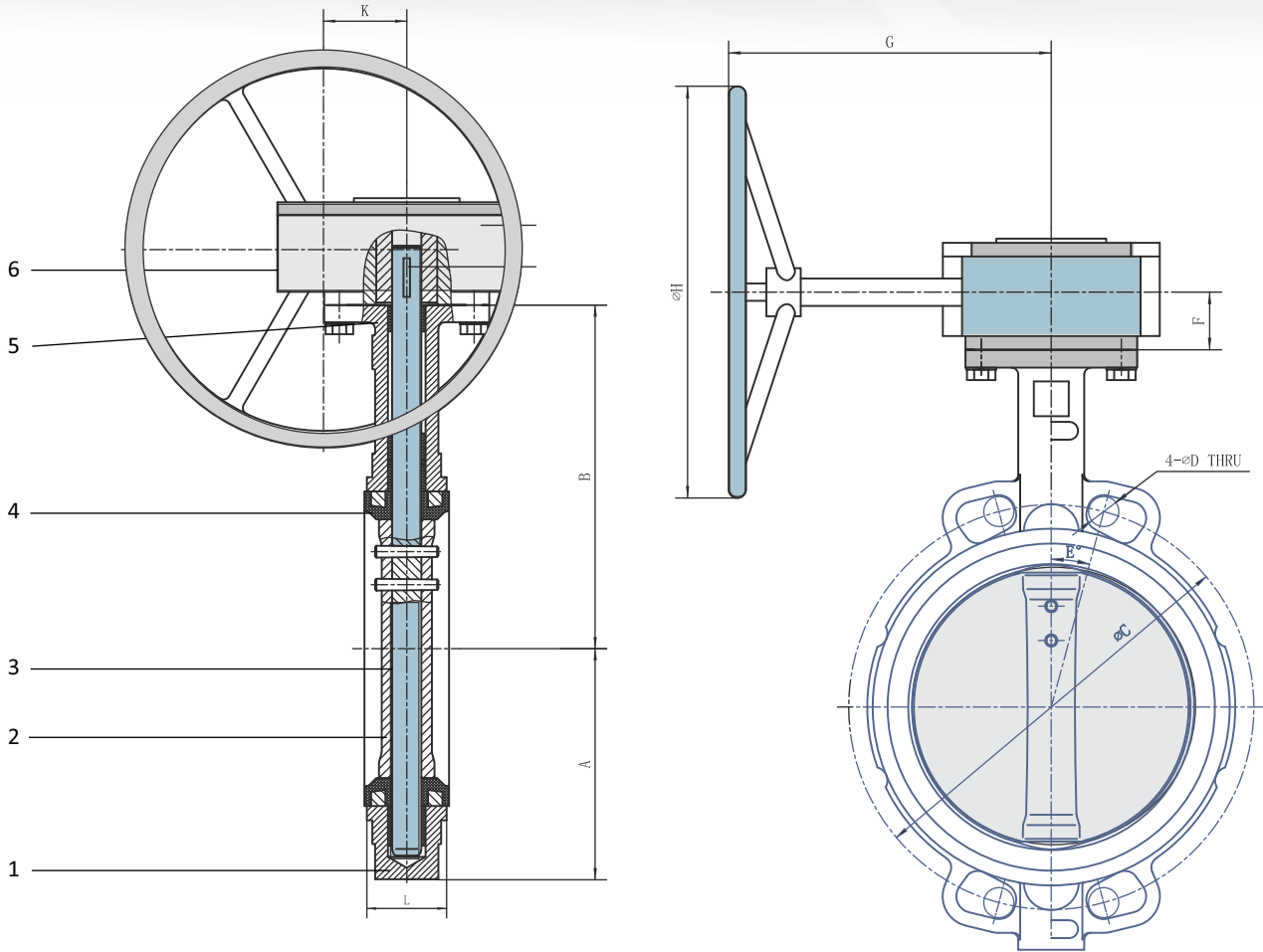
Dimensions - Unit (mm) - For dimension drawing, please refer next page

DN		A	B	C	D	E	F	G	H	K	O	P	R	L
Inches	mm													
6"	150	139	225	240	22	22.5	38	178	150	45	90	70	9.5	56
8"	200	177	260	295	22	15	41	235	300	63	125	102	11.5	60
10"	250	203	292	355	26	15	41	235	300	63	125	102	11.5	66
12"	300	242	337	410	26	15	42	226	300	81	125	102	11.5	77
14"	350	277	368	470	26	11.25	42	226	300	81	140	102	11.5	77
16"	400	308	400	525	30	11.25	48	217	360	95	210	165	22	102
18"	450	342	422	585	30	9	48	217	360	95	210	165	22	114
20"	500	374	479	650	33	9	115	320	360	185	210	165	22	130
24"	600	459	562	770	36	9	120	335	360	185	210	165	22	152

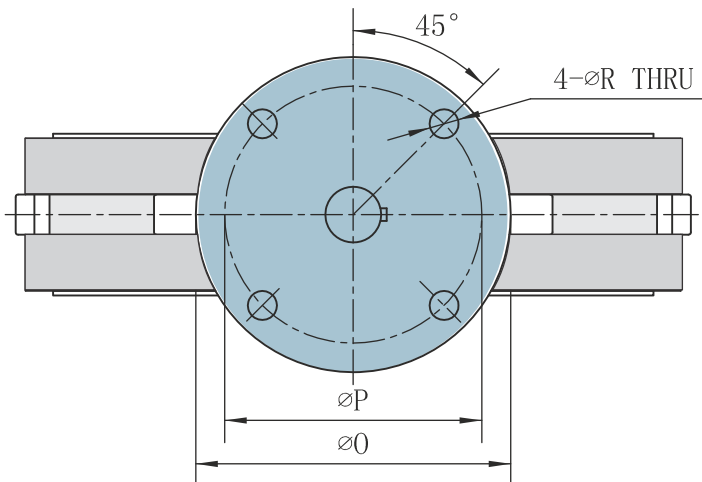
All dimensions are nominal (indicative)
Actual dimensions may vary



DUCTILE IRON BUTTERFLY VALVE, SEMI LUGGED, GEAR OPERATED BS EN593 PN16

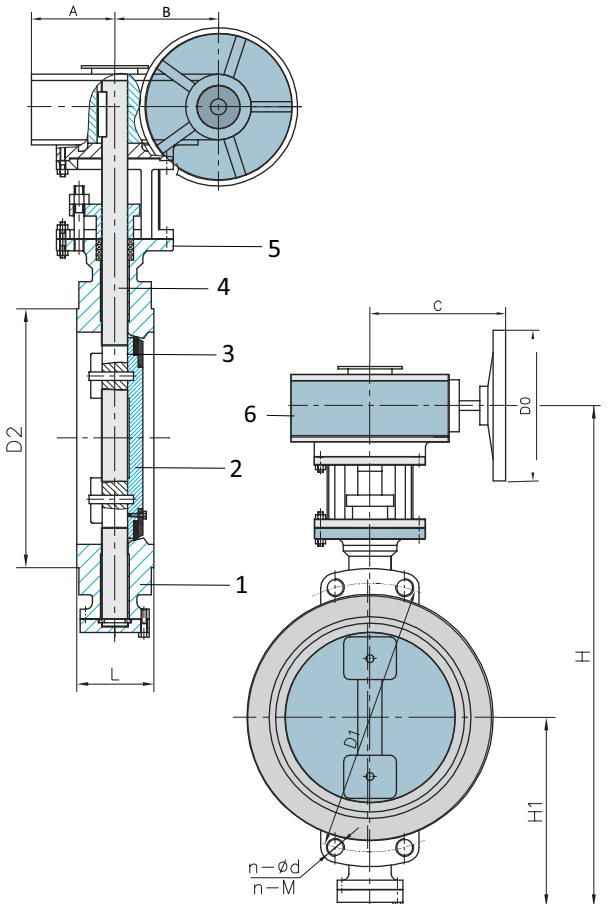


Disassembly Gear Operator





**METAL SEATED WCB BUTTERFLY VALVE, SEMI LUGGED
GEAR OPERATED BS EN593 PN25
RFBU250 2½" - 24"**



Features:

- Designed to BS EN593
- Pressure Rating: PN25
- Working Medium: Water, Oil, Steam
- Face to Face: BS EN558-1 basic series 16
- Flanged to BS4504 / BS EN1092-1
- Metal Seated, semi-lugged wafer type
- Optional chain wheel operator available
- Electric / Pneumatic actuators available
- Other flange standards available upon request
- ANSI standards available upon request
- Hydrostatic Test Pressure
Shell - 37.5 bar
Seat - 27.5 bar

Material Specifications

Sl.	Component	Material
1	Body	Cast Steel / A216 WCB
2	Seat Ring	SS304 + Graphite
3	Disc	Cast Steel / A216 WCB
4	Stem	SS420
5	Stem Packing	Graphite
6	Gear Box	Ductile Iron

Dimensions (mm)

Inches	DN		L	H	H1	D1	D2	A	B	C	D0	n-∅d(M)
	mm											
2½"	65		46	370	122	145	118	53	50	106	150	4-∅18
3"	80		64	380	132	160	132	53	50	106	150	4-∅18
4"	100		64	410	152	190	156	53	50	106	180	4-∅22
5"	125		70	445	167	220	184	53	50	106	180	4-∅26
6"	150		76	520	187	250	211	84	80	143	220	4-∅26
8"	200		89	594	222	310	274	84	80	143	280	4-M24
10"	250		114	674	267	370	330	113	108	200	280	4-M27
12"	300		114	805	302	430	389	113	108	200	320	4-M27
14"	350		127	870	332	490	448	150	144	330	320	4-M30
16"	400		140	977	382	550	503	150	144	330	350	4-M33
18"	450		152	1002	397	600	548	150	144	330	350	4-M33
20"	500		152	1043	442	660	609	150	144	330	350	4-M33
24"	600		178	1255	485	770	720	193	184	360	450	4-M36

All dimensions are nominal (indicative)
Actual dimensions may vary

DUCTILE IRON BUTTERFLY VALVE, FULLY LUGGED, LEVER OPERATED

BS EN593 PN16
 RFBU161 2½" - 6"



Features:

- Designed to BS EN593
- Pressure Rating: PN16
- Working Medium: Water, Oil, Steam
- Face to Face: BS EN558-1 basic series 20
- Flanged to BS4504 / BS EN1092-2
- Top flange confirm to ISO 5211
- Electric / Pneumatic actuators available
- Suitable to mount between PN16 flanges
- Replaceable liner
- EPDM lined
- Fully lugged design, wafer type
- Can be supplied with locking device and position indicator upon request
- Other flange standards available upon request
- Other pressure ratings available upon request
- ANSI standards available upon request
- Hydrostatic Test Pressure
 - Shell - 24 bar
 - Seat - 17.6 bar

Material Specifications

Sl.	Component	Material
1	Body	Ductile Iron
2	Disc	DI NP / SS / AB
3	Stem	SS416
4	Seat	EPDM
5	Bushing	PTFE
6	Lever	Cast Iron

Dimensions - Unit (mm) - For dimension drawing, please refer next page

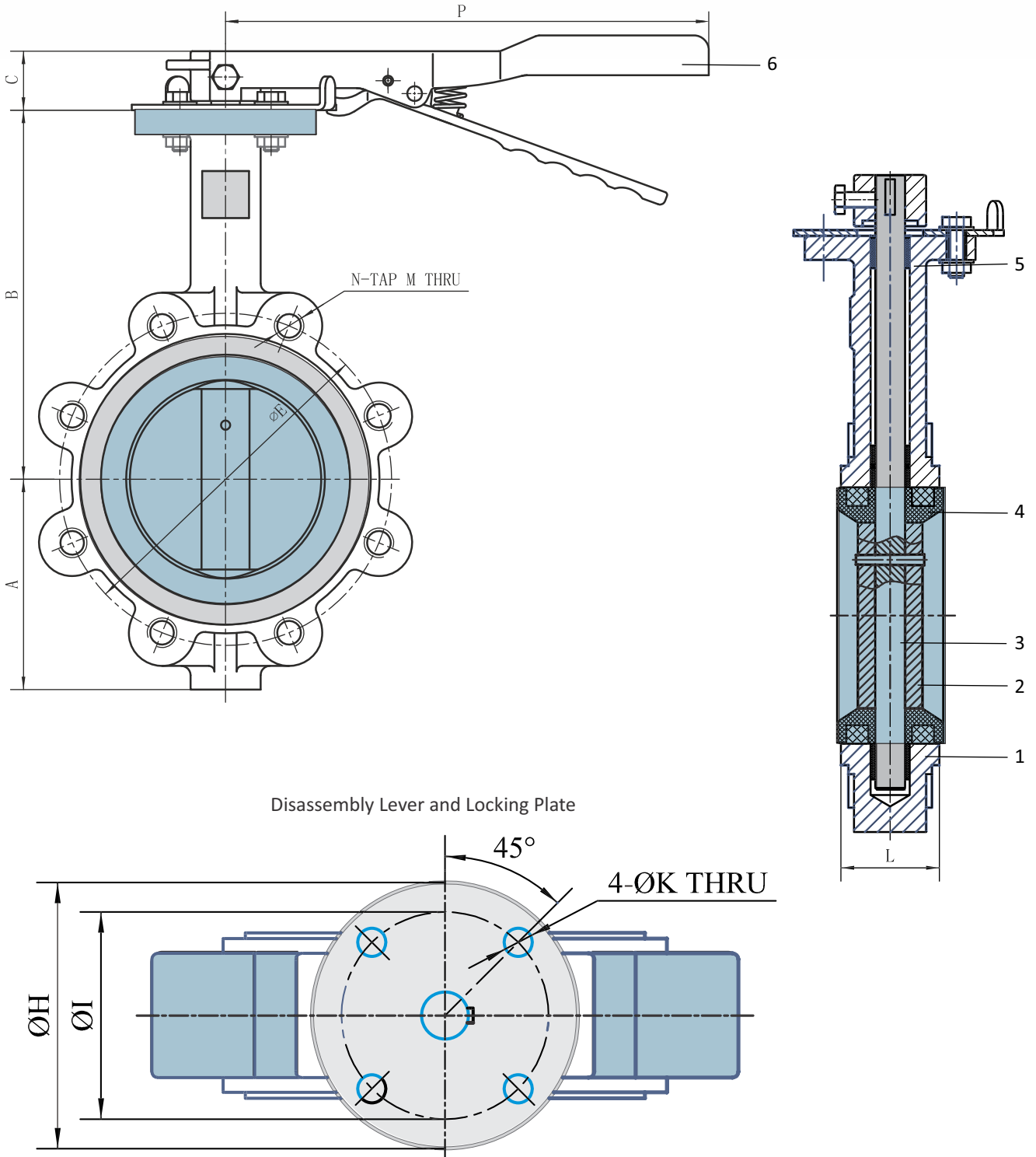
DN		A	B	C	E	H	I	K	M	N	L	P
Inches	mm											
2½"	65	89	174	32	145	65	50	7	M16	4	45	230
3"	80	95	181	32	160	65	50	7	M16	8	45	230
4"	100	114	200	32	180	90	70	9.5	M16	8	52	260
5"	125	127	213	32	210	90	70	9.5	M16	8	54	260
6"	150	139	225	32	240	90	70	9.5	M20	8	56	260

All dimensions are nominal (indicative)
 Actual dimensions may vary



DUCTILE IRON BUTTERFLY VALVE, FULLY LUGGED, LEVER OPERATED

BS EN593 PN16



DUCTILE IRON BUTTERFLY VALVE, FULLY LUGGED, GEAR OPERATED

BS EN593 PN16

RFBU161 6" - 24"



Features:

- Designed to BS EN593
- Pressure Rating: PN16
- Working Medium: Water, Oil, Steam
- Face to Face: BS EN558-1 basic series 20
- Flanged to BS4504 / BS EN1092-2
- Top flange confirm to ISO 5211
- Optional chain wheel operator available
- Electric / Pneumatic actuators available
- Suitable to mount between PN16 flanges
- Replaceable liner
- EPDM lined
- Fully lugged design, wafer type
- Can be supplied with locking device and position indicator upon request
- Other flange standards available upon request
- Other pressure ratings available upon request
- ANSI standards available upon request
- Hydrostatic Test Pressure
 - Shell - 24 bar
 - Seat - 17.6 bar

Material Specifications

Sl.	Component	Material
1	Body	Ductile Iron
2	Disc	DI NP / SS / AB
3	Stem	SS416
4	Seat	EPDM
5	Bushing	PTFE
6	Gear Box	Ductile Iron

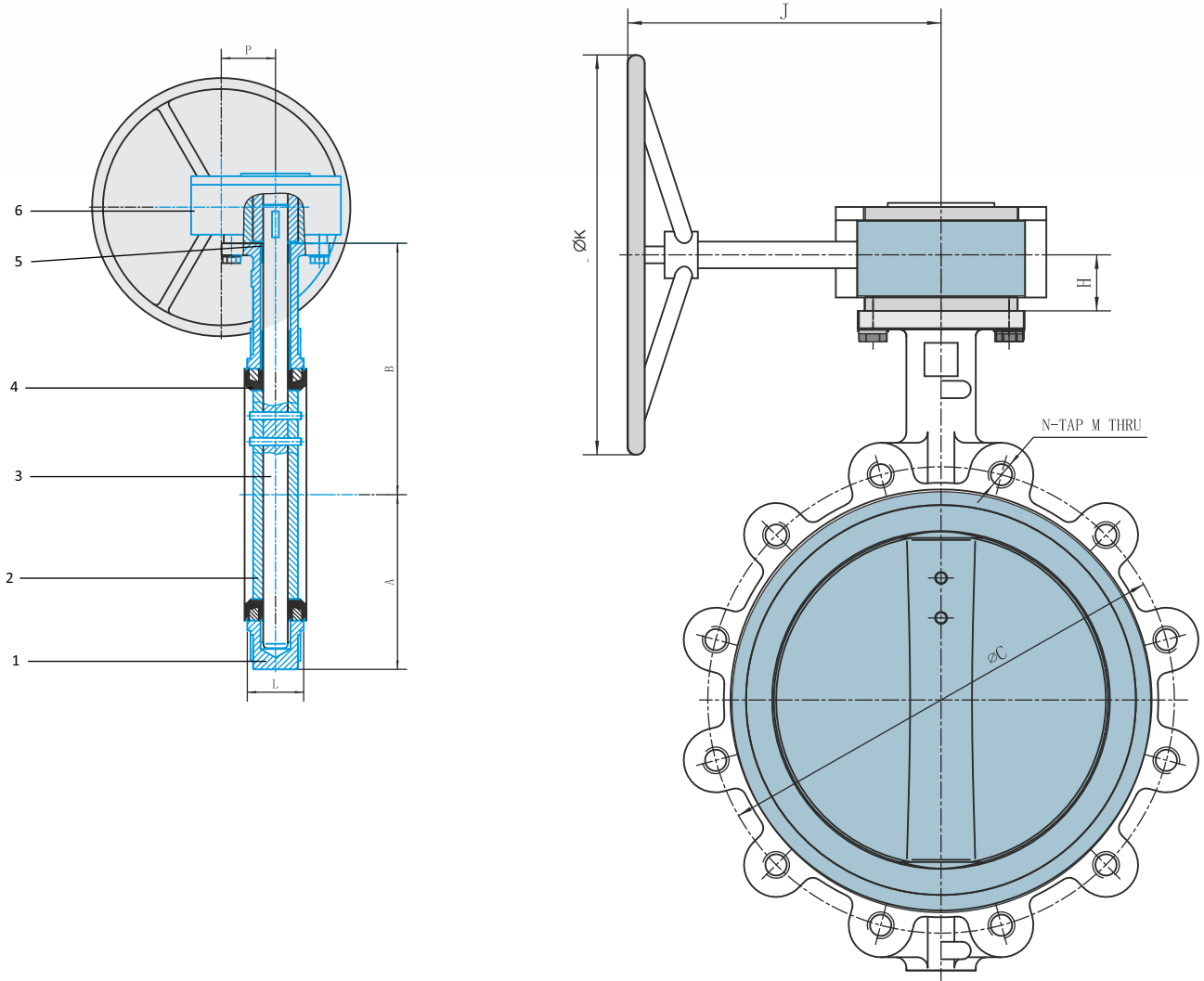
Dimensions - Unit (mm) - For dimension drawing, please refer next page

DN		A	B	C	D	E	F	N-TAP M	H	J	K	P	L
Inches	mm												
6"	150	139	225	240	90	70	9.5	8-M20	38	178	150	45	56
8"	200	177	260	295	125	102	11.5	12-M20	41	235	300	63	60
10"	250	203	292	355	125	102	11.5	12-M24	41	235	300	63	66
12"	300	242	337	410	125	102	11.5	12-M24	42	226	300	81	77
14"	350	277	368	470	140	102	11.5	16-M24	42	226	300	81	77
16"	400	308	400	525	210	165	22	16-M27	48	217	360	95	102
18"	450	342	422	585	210	165	22	20-M27	48	217	360	95	114
20"	500	374	479	650	210	165	22	20-M30	115	320	360	185	130
24"	600	459	562	770	210	165	22	20-M33	120	335	360	185	152

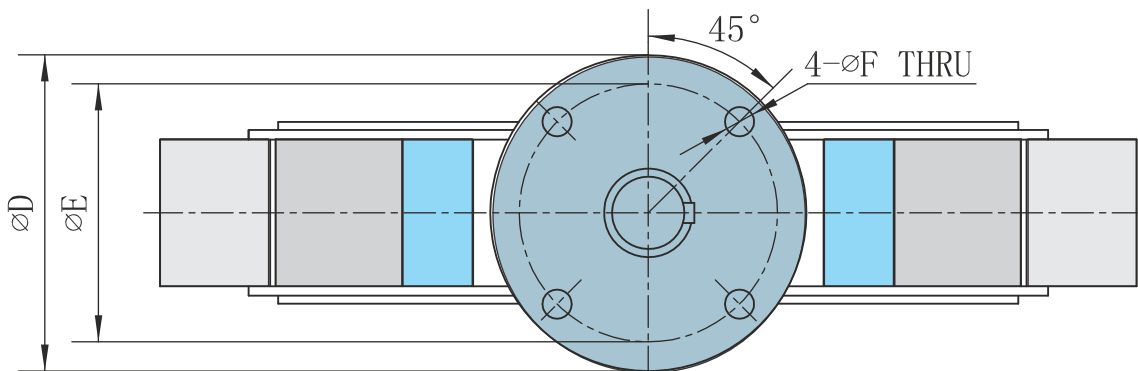
All dimensions are nominal (indicative)
 Actual dimensions may vary



DUCTILE IRON BUTTERFLY VALVE, FULLY LUGGED, GEAR OPERATED BS EN593 PN16



Disassembly Gear Operator





METAL SEATED WCB BUTTERFLY VALVE, FULLY LUGGED GEAR OPERATED BS EN593 PN25 RFBU251 2½" - 24"



Features:

- Designed to BS EN593
- Pressure Rating: PN25
- Working Medium: Water, Oil, Steam
- Face to Face: BS EN558-1 basic series 16
- Flanged to BS4504 / BS EN1092-1
- Metal Seated, fully lugged wafer type
- Optional chain wheel operator available
- Electric / Pneumatic actuators available
- Other flange standards available upon request
- ANSI standards available upon request
- Hydrostatic Test Pressure
 - Shell - 37.5 bar
 - Seat - 27.5 bar

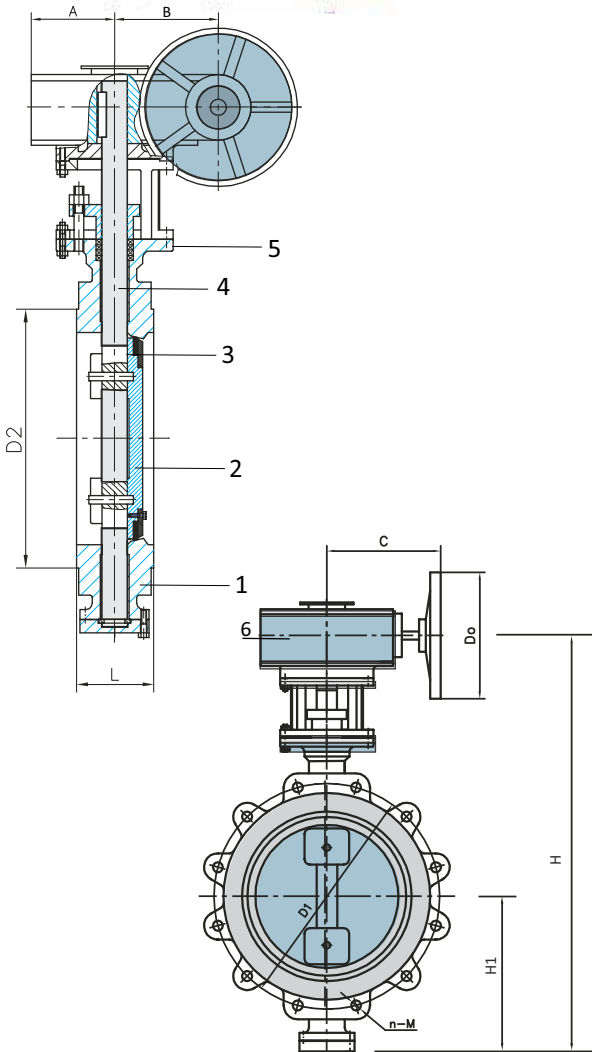
Material Specifications

Sl.	Component	Material
1	Body	Cast Steel / A216 WCB
2	Disc	Cast Steel / A216 WCB
3	Stem	SS420
4	Seat Ring	SS304 + Graphite
5	Stem Packing	Graphite
6	Gear Box	Ductile Iron

Dimensions (mm)

Inches	DN		L	H	H1	D1	D2	D0	A	B	C	n-M
	mm											
2½"	65		46	370	122	145	118	150	53	50	106	8-M16
3"	80		64	380	132	160	132	150	53	50	106	8-M16
4"	100		64	410	152	190	156	180	53	50	106	8-M20
5"	125		70	445	167	220	184	180	53	50	106	8-M24
6"	150		76	520	187	250	211	220	84	80	143	8-M24
8"	200		89	594	222	310	274	280	84	80	143	12-M24
10"	250		114	674	267	370	330	280	113	108	200	12-M27
12"	300		114	805	302	430	389	320	113	108	200	16-M27
14"	350		127	870	332	490	448	320	150	144	330	16-M30
16"	400		140	977	382	550	503	350	150	144	330	16-M33
18"	450		152	1002	397	600	548	350	150	144	330	20-M33
20"	500		152	1043	442	660	609	350	150	144	330	20-M33
24"	600		178	1255	485	770	720	450	193	184	360	20-M36

All dimensions are nominal (indicative)
Actual dimensions may vary





DUCTILE IRON DOUBLE FLANGED BUTTERFLY VALVE GEAR OPERATED BS EN593 PN16 RFBUFB-161 28" - 48"



Features:

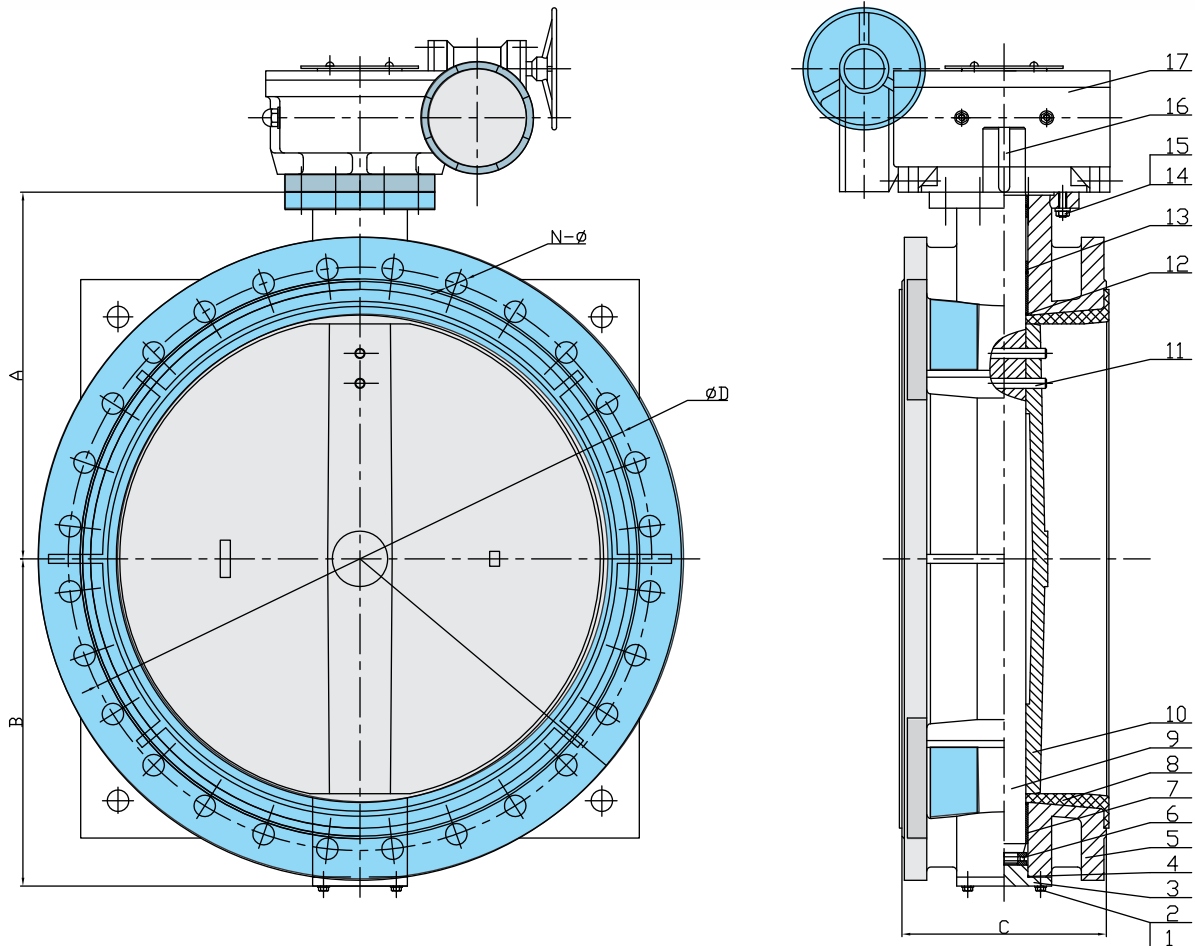
- Designed to BS EN593
- Pressure Rating: PN16
- Working Medium: Water, Oil, Steam
- Face to Face: BS EN558-1 basic series 13
- Flanged to BS EN1092-2 / Bs4504
- Top flange conforms to ISO 5211
- Gear operation as standard
- Optional chain wheel operator available
- Alternative disc material available on request
- Electric / Pneumatic actuators available
- Other flange standards available upon request
- ANSI standards available upon request
- Higher sizes available upon request
- Hydrostatic Test Pressure
 - Shell - 24 bar
 - Seat - 17.6 bar

Material Specifications

Sl.	Component	Material
1	Screw	Steel
2	Washer	Steel
3	Cover	Ductile Iron
4	O Ring	NBR
5	Body	Ductile Iron
6	Bearing	Steel
7	Bushing	Bronze
8	Seat	EPDM
9	Stem	SS431
10	Disc	DI/CF8
11	Pin	SS316
12	O Ring	NBR
13	Bushing	Bronze
14	Screw	Steel
15	Washer	Steel
16	Key	Steel
17	Gear Box	GG25



**DUCTILE IRON DOUBLE FLANGED BUTTERFLY VALVE
GEAR OPERATED BS EN593 PN16**

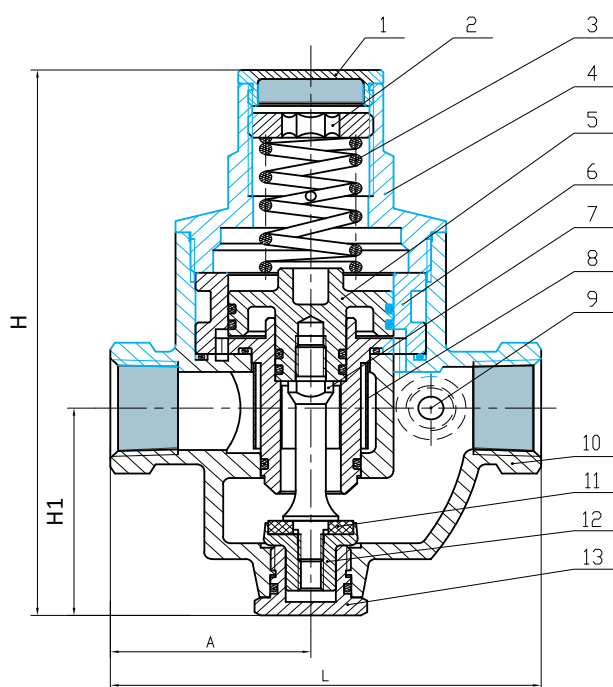


Dimensions (mm)

DN		A	B	C	FLANGE PN16	
Inches	mm				PCD	N-ØG
28"	700	560		292	840	24-37
32"	800	620	530	318	950	24-41
36"	900	692	602	330	1050	28-41
40"	1000	735	656	410	1170	28-44
48"	1200	917		470	1390	32-50

All dimensions are nominal (indicative)
Actual dimensions may vary

BRONZE PRESSURE REDUCING VALVE PN20 RFPRV20 ½" - 1"



Features:

- Pressure rating: PN20
- Working medium: Water, Gas
- BS21 Taper threaded to ISO7 / BS EN10226-2
- Outlet pressure: 0.1-0.4 Mpa
- Hydrostatic Test Pressure
 - Shell - 30 bar
 - Seat - 22 bar

Material Specifications

Sl.	Component	Material
1	Tap Lid	Brass CW617N
2	Male Nipple	Brass CW617N
3	Spring	65Si2MnWA
4	Bonnet	Bronze CC491K
5	Core	Brass CW617N
6	Valve Core	Bronze CC491K
7	Stem	Brass CW617N
8	Mesh	SS304
9	Gauge connection	-
10	Body	Bronze CC491K
11	Gasket	NBR
12	Disc	Brass CW617N
13	Cap	Brass CW617N

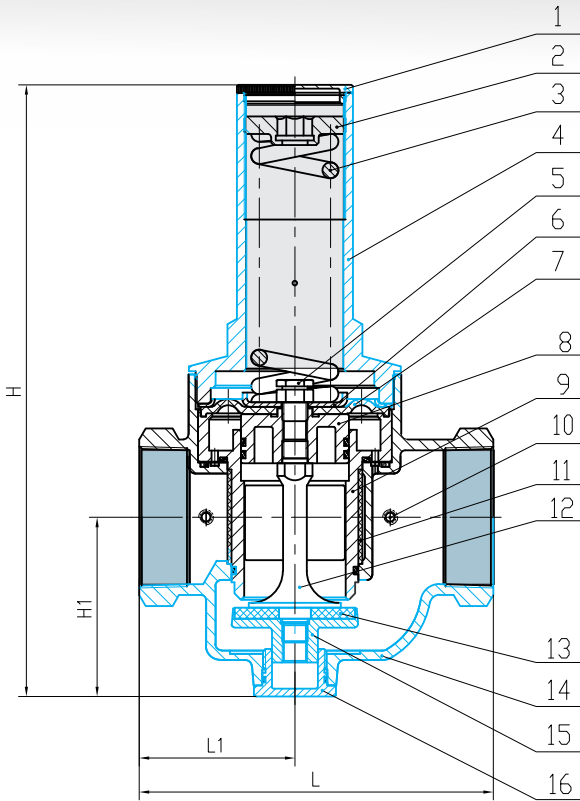
Dimensions - Unit (mm)

DN		L	A	H	H1
Inches	mm				
½"	15	89	41.5	121	46
¾"	20	92	43	121	46
1"	25	98	46	121	46

All dimensions are nominal (indicative)
Actual dimensions may vary



BRONZE PRESSURE REDUCING VALVE PN20 RFPRV20 1¼" - 4"



Features:

- Pressure rating: PN20
- Working medium: Water, Gas
- BS21 Taper threaded to ISO7 / BS EN10226-2
- Outlet pressure: 0.1-0.5 Mpa
- Hydrostatic Test Pressure
 - Shell - 30 bar
 - Seat - 22 bar

Material Specifications

Sl.	Component	Material
1	Tap Lid	Brass CW617N
2	Male Nipple	Brass CW617N
3	Spring	65Si2MnWA
4	Bonnet	Bronze CC491K
5	Screw	Brass CW617N
6	Diaphragm plate	Steel
7	Diaphragm	EPDM + Nylon Reinforced
8	Core	Brass CW617N
9	Valve Core	Bronze CC491K
10	Gauge	-
11	Mesh	SS304
12	Stem	Brass CW617N
13	Gasket	NBR
14	Body	Bronze CC491K
15	Disc	Brass CW617N
16	Cap	Brass CW617N

Dimensions - Unit (mm)

DN		H1	H	L1	L
Inches	mm				
1¼"	32	62	192	55.5	126
1½"	40	62	192	55.5	126
2"	50	85	272	72	168
2½"	65	85	272	75.5	174
3"	80	113	385	98.5	225
4"	100	113	385	104.5	230

All dimensions are nominal (indicative)
Actual dimensions may vary



2-WAY CONTROL VALVE

PN25

RFCO25 1/2" - 1"



Features:

- Pressure rating: PN25
- Working medium: Water
- Standard Size for the By-Pass: 3/4"
- Actuator details in separate sheet
- Maximum differential pressure for 2 way valve: 4 bar with our supplied actuator (details given separately)
- Hydrostatic Test Pressure
 - Shell - 37.5 bar
 - Seat - 27.5 bar

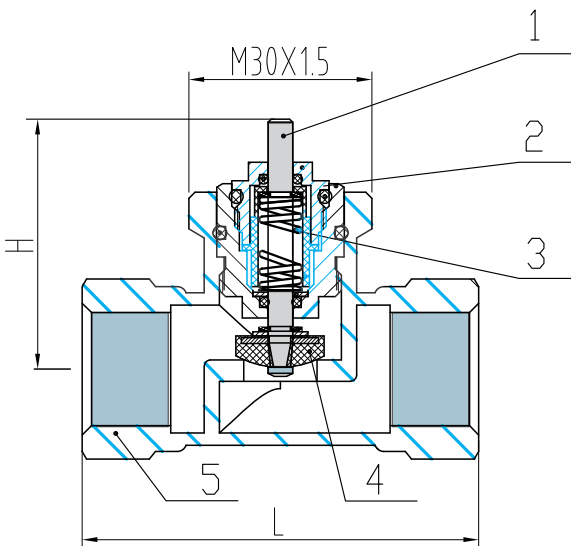
Material Specifications

Sl.	Component	Material
1	Stem	Stainless Steel
2	Bonnet	DZR Brass CW602N
3	Spring	Stainless Steel
4	Disc	NBR
5	Body	DZR Brass CW602N

Dimensions - Unit (mm)

DN		L	H
Inches	mm		
1/2"	15	65	43
3/4"	20	70	43.5
1"	25	75	43

All dimensions are nominal (indicative)
Actual dimensions may vary

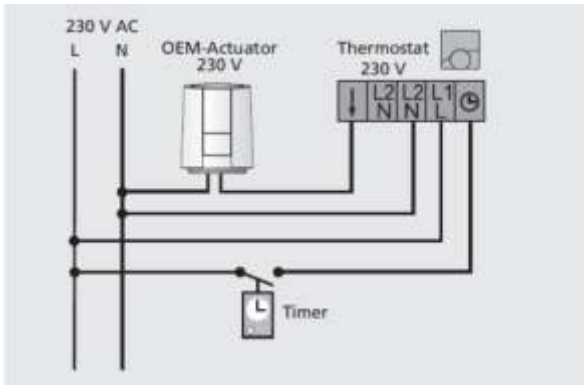




ACTUATOR FOR 2-WAY CONTROL VALVE ON/OFF



Electrical Installation:



We recommend usage of the following lines for installing a 230 V system:

- Light plastic-sheathed cable NYM 1.5 mm² Flat
- webbed building wire NYIF 1.5 mm²

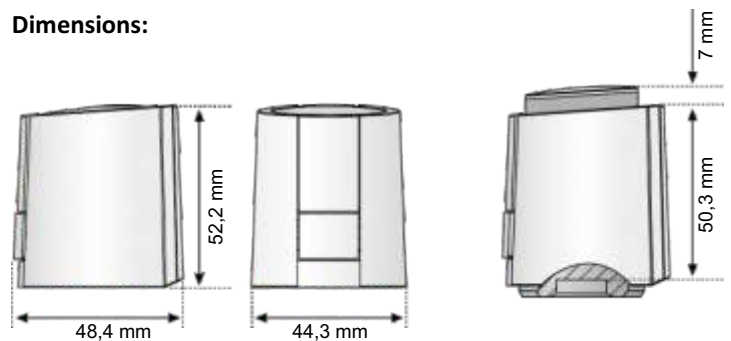
Features:

- Modern Design
- Stroke Variants 4.0 mm
- Power Consumption 1 Watt
- Simple Snap-on installation
- 360° installation position
- Noiseless and maintenance free

Technical Information:

Operating voltage:	230 V AC, +10%...-10%, 50/60 Hz
Max. inrush current:	< 550 mA during 100 ms max.
Operating power:	1 W
Stroke (actuator travel):	4.0
Actuating force:	100 N ±5%
Fluid temperature:	0 to +100°C
Storage temperature:	-25°C to +60°C
Ambient temperature:	0 to +60°C
Type of protection:	IP 54 / II
CE conformity according to:	EN 60730
Housing material/ colour:	Polyamide / light grey (RAL 7035)
Connecting cable/colour:	2 x 0.75 mm ² PVC / light grey (RAL 7035)
Cable length:	1 m
Surge protection EN 60730-1:	min. 2.5 kV

Dimensions:



Dimensions

All dimensions are nominal (indicative)
Actual dimensions may vary

Installation height



**BRASS AUTO AIR VENT (THREADED)
WITH DETACHABLE CHECK VALVE PN16**
RFAV16 ½" - 1"



Features:

- Pressure rating: PN16
- Brass body with detachable check valve
- Working medium: Water
- End connection: BS21 Taper Threaded (ISO7)

Dimensions - Unit (mm)

DN		H	L
Inches	MM		
½"	15	76	50
¾"	20	76	50
1"	25	76	50

All dimensions are nominal (indicative)
Actual dimensions may vary



BRASS ANGLE VALVE (CHROME PLATED) PN10 RFAV10 1/2"

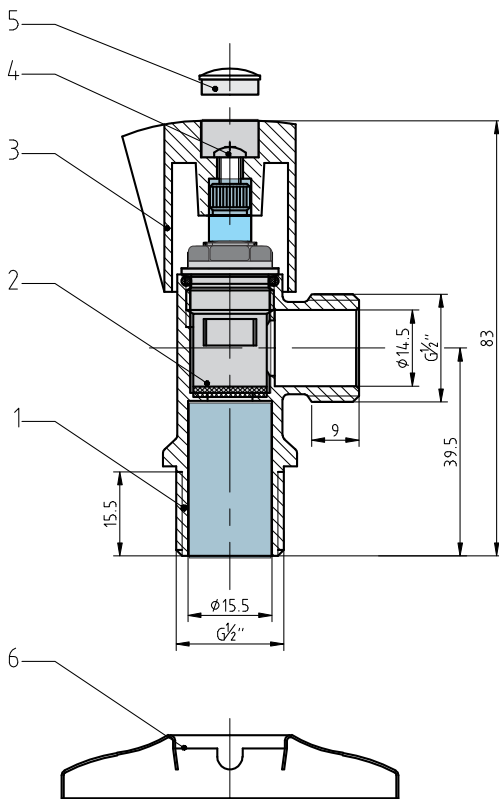


Features:

- Pressure rating: PN10
- Working medium: Water, Gas
- BS21 Taper Threaded (ISO7)

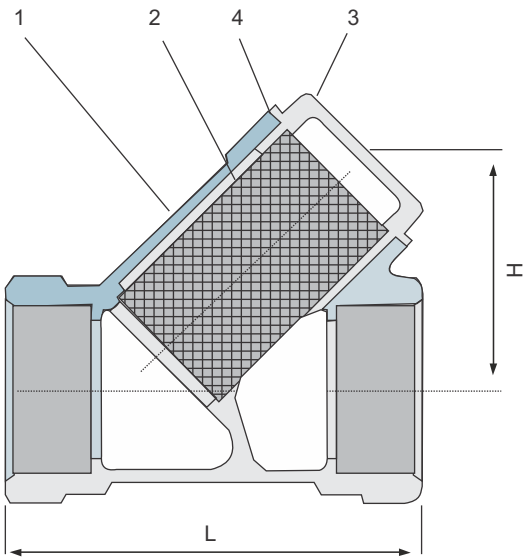
Material Specifications

Sl.	Component	Material
1	Body	Brass (Chrome Plated)
2	Cartridge	Brass / Ceramic
3	Handle	Zinc (Chrome Plated)
4	Screw	Steel
5	Knob	ABS
6	Flange	Brass (Chrome Plated)





BRONZE Y-STRAINER
PN20
RFYS20 1/2" - 2"



Features:

- Pressure Rating: PN20
- Working Medium: Water, Oil, Steam
- Stainless steel screen
- Screwed cap
- BS21 Taper Threaded (ISO 7) / BS EN10226-2
- Available with NPT Threads, subject to minimum quantities
- Mesh details in separate section
- Hydrosatic Test Pressure
Shell - 30 bar

Material Specifications

Sl.	Component	Material
1	Body	Bronze CC491K
2	Screen	Stainless Steel 304
3	Cap	Bronze CC491K
4	Gasket	PTFE

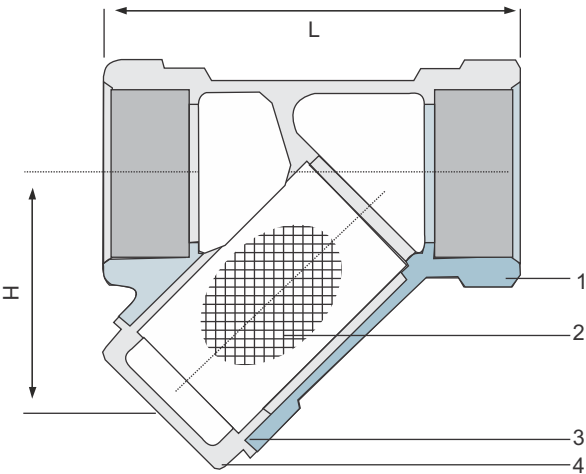
Dimensions (mm)

DN		L	H
Inches	MM		
1/2"	15	58	34
3/4"	20	70	39
1"	25	88	48
1 1/4"	32	96	57
1 1/2"	40	107	62
2"	50	126	80

All dimensions are nominal (indicative)
Actual dimensions may vary



BRONZE Y-STRAINER
PN25
RFYS25 ½" - 2"



Features:

- Pressure Rating: PN25
- Working Medium: Water, Oil, Steam
- Stainless steel screen
- Screwed cap
- BS21 Taper Threaded (ISO 7) / BS EN10226-2
- Available with NPT Threads, subject to minimum quantities
- Mesh details in separate section
- Hydrosatic Test Pressure
Shell - 37.5 bar

Material Specifications

Sl.	Component	Material
1	Body	Bronze CC491K
2	Screen	Stainless Steel 304
3	Cap	Bronze CC491K
4	Gasket	PTFE

Dimensions (mm)

DN		L	H
Inches	MM		
½"	15	74.5	40
¾"	20	86.5	45
1"	25	108	64
1¼"	32	122	71
1½"	40	135	81
2"	50	163	96

All dimensions are nominal (indicative)
Actual dimensions may vary



CAST IRON Y-STRAINER
PN16
RFYS16 2½" - 18"

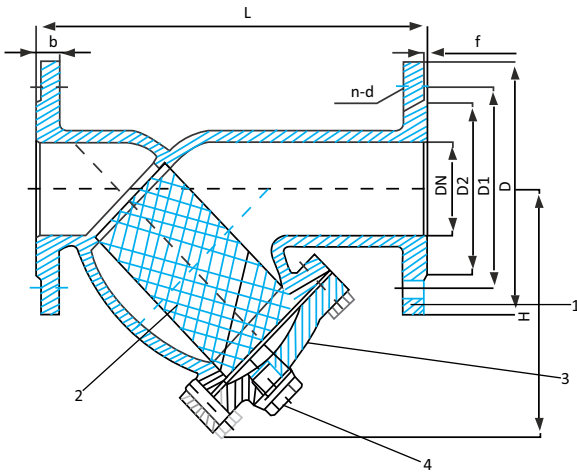


Features:

- Pressure Rating: PN16
 - Working Medium: Water, Oil, Steam
 - Flanged to BS4504 / BS EN1092-2
 - Bolted cover with drain plug
 - Stainless Steel screen
 - Can be supplied with 2 test points upon request
 - Other flange standards available upon request
 - Other pressure ratings available upon request
 - ANSI standards available upon request.
 - Mesh details in separate section
 - Higher sizes available upon request
- Shell - 24 bar

Material Specifications

Sl.	Component	Material
1	Body	Cast Iron
2	Screen	SS304
3	Bonnet	Cast Iron
4	Plug	Cast Iron



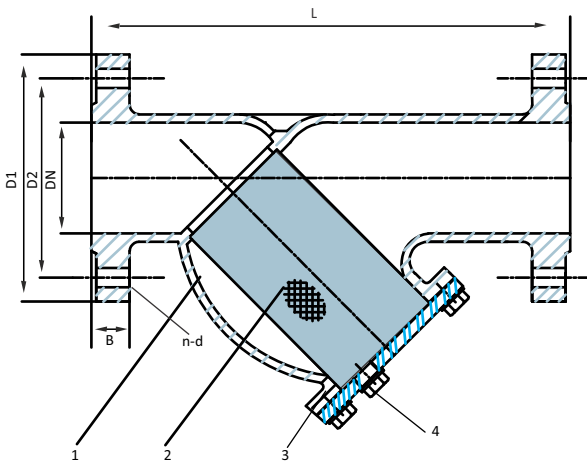
Dimensions (mm)

DN		L	D	D1	D2	H	b	f	n-d
Inches	mm								
2½"	65	273	178	145	118	189	20	3	4-19
3"	80	292	190	160	132	213	22	3	8-19
4"	100	352	220	180	156	226	24	3	8-19
5"	125	416	254	210	184	273	26	3	8-19
6"	150	470	279	240	211	301	26	3	8-23
8"	200	543	343	295	266	370	30	3	12-23
10"	250	660	406	355	319	457	32	3	12-28
12"	300	762	483	410	370	540	32	4	12-28
14"	350	980	520	470	429	740	36	4	16-28
16"	400	1100	580	525	480	850	38	4	16-31
18"	450	1200	640	585	548	800	40	4	20-31

All dimensions are nominal (indicative)
Actual dimensions may vary



DUCTILE IRON Y-STRAINER
PN25
RFYS25 2½" - 12"



Features:

- Pressure Rating: PN25
- Working Medium: Water, Oil, Steam
- Flanged to BS4504 / BS EN1092-2
- Bolted cover with drain plug
- Stainless Steel screen
- Can be supplied with 2 test points upon request
- Other flange standards available upon request
- Other pressure ratings available upon request
- ANSI standards available upon request.
- Mesh details in separate section
- Higher sizes available upon request
Shell - 37.5 bar

Material Specifications

Sl.	Component	Material
1	Body	Ductile Iron
2	Screen	SS304
3	Bonnet	Ductile Iron
4	Plug	Cast Iron

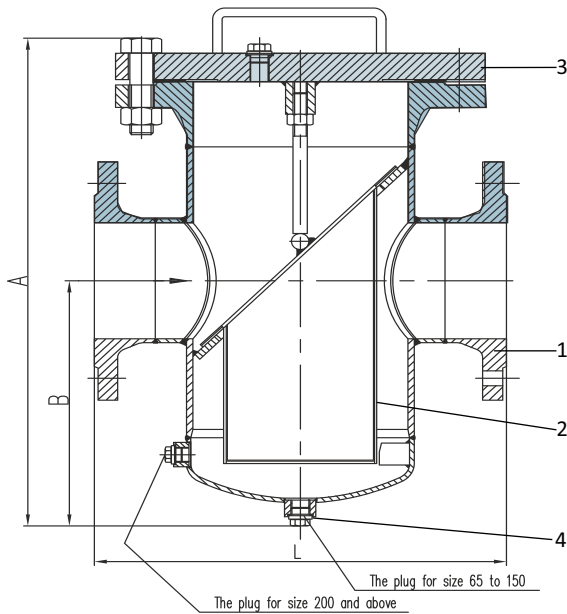
Dimensions (mm)

DN		L	D	D1	D2	b	n-d
Inches	mm						
2½"	65	273	185	145	122	19	8-19
3"	80	292	200	160	138	19	8-19
4"	100	352	235	190	158	19	8-23
5"	125	416	270	220	188	19	8-28
6"	150	470	300	250	212	20	8-28
8"	200	543	360	310	268	22	12-28
10"	250	660	425	370	320	24.5	12-31
12"	300	762	485	430	378	27.5	16-31

All dimensions are nominal (indicative)
Actual dimensions may vary



CAST IRON BASKET STRAINER PN16 RFBS16 2½" - 24"



Features:

- Pressure Rating: PN16
- Working Medium: Water, Oil
- Flanged to BS4504 / BS EN1092-2
- Stainless Steel screen
- Other flange standards available upon request
- Other pressure ratings available upon request
- ANSI standards available upon request.
- Mesh details in separate section
- Higher sizes available upon request
Shell - 24 bar

Material Specifications

Sl.	Component	Material
1	Body	Cast Iron
2	Screen	Stainless Steel
3	Cover	Cast Iron
4	Plug	Cast Iron

Dimensions (mm)

DN		L	A	B
Inches	mm			
2½"	65	210	250	155
3"	80	251	295	190
4"	100	292	330	205
5"	125	334	370	215
6"	150	375	400	235
8"	200	475	510	295
10"	250	511	665	340
12"	300	680	760	405
14"	350	769	930	585
16"	400	824	980	590
18"	450	824	1010	590
20"	500	824	1110	600
24"	600	1054	1690	1175

All dimensions are nominal (indicative)
Actual dimensions may vary



STRAINER MESH DETAILS

STRAINER SCREEN FOR PN25 (RFYS25, RFBA25)

DN (Mm)	Diameter of Hole	Thickness	Meshes/cm ²	Material
15	0.7mm	0.4	60	Stainless Steel 304
20	0.7mm	0.4	60	
25	0.7mm	0.4	60	
32	1.4mm	0.5	28	
40	1.4mm	0.5	28	
50	1.4mm	0.5	28	

STRAINER SCREEN FOR PN20 (RFYS20)

DN (Mm)	Diameter of Hole	Thickness	Meshes/cm ²	Material
15	0.7mm	0.4	60	Stainless Steel 304
20	0.7mm	0.4	60	
25	0.7mm	0.4	60	
32	1.4mm	0.4	28	
40	1.4mm	0.4	28	
50	1.4mm	0.4	28	

STRAINER SCREEN FOR PN16/PN25 (RFYS16 / RFYS25)

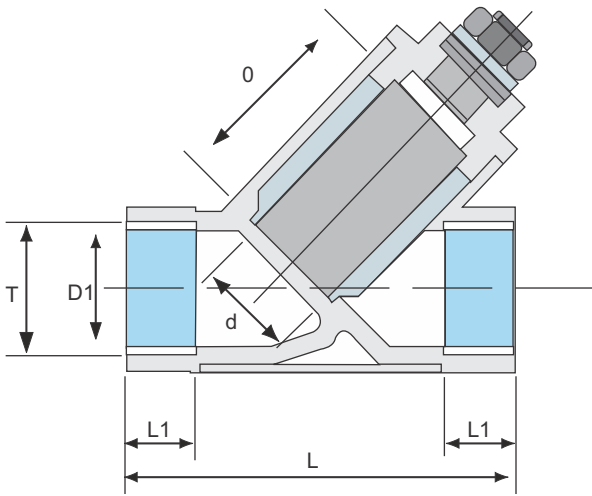
DN (Mm)	PN Rating	Diameter of Hole	Thickness	Meshes/cm ²	Material
65	PN 16/25	1.2mm	1	36	Stainless Steel 304
80	PN 16/25	1.2mm	1	36	
100	PN 16/25	3.0mm	1.5	9	
125	PN 16/25	3.0mm	1.5	9	
150	PN 16/25	3.0mm	1.5	9	
200	PN 16/25	3.0mm	1.5	9	
250	PN 16/25	3.0mm	1.5	9	
300	PN 16/25	3.0mm	1.5	9	
350	PN16	3.0mm	1.5	9	
400	PN16	3.0mm	2	9	

SCREEN FOR BASKET STRAINER PN16 (RFBS16)

DN (Mm)	Diameter of Hole	Thickness	Material
65	1.5	0.5	Stainless Steel 304
80	1.5	0.5	
100	3	1	
125	3	1	
150	3	1	
200	3	1	
250	3	1	
300	3	1	
350	3	1	
400	3	1	
450	3	1	
500	3	1	
600	3	1	



Y STRAINER THREADED END RFYS-TH 1/4" – 2"



FEATURES:

- Pipe thread in accordance: NPT, BSPT, DIN259, DIN2999, ISO228
- Investment casting body
- Working Pressure: PN16
- API598, GB/T13927, ISO5208

Material Specifications

ITEM	COMPONENT	MATERIALS
1	BODY	SCS13A/ CF8 SCS14A / CF8M
2	CAP	SCS13A/ CF8 SCS14A / CF8M
3	SCREEN	SS316
4	GASKET	PTFE
5	SEAL	PTFE
6	STOPPER	SCS13A/ CF8 SCS14A / CF8M

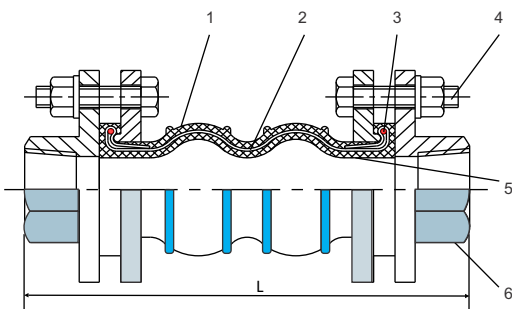
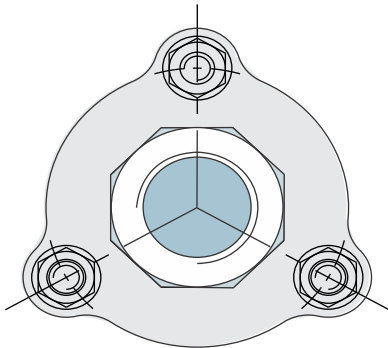
Dimensions - Unit (mm)

DN		L	L0	L1	d	D1
Inches	MM					
1/4"	8	64	28.5	12	10.5	11
3/8"	10	64	28.5	12	12.5	14.5
1/2"	15	61	28.5	12	15	18
3/4"	20	78	40	13	20	23
1"	25	87	49	17	25	29
1 1/4"	32	104	53	17	32	37
1 1/2"	40	116	60	19	38	44
2"	50	139	75	20	50	55

All dimensions are nominal (indicative)
Actual dimensions may vary



DOUBLE SPHERE RUBBER FLEXIBLE CONNECTOR
PN16
RFFC16 ½" - 2"



Features:

- Pressure Rating: PN16
- End connection: BS21 Taper Threaded (ISO7) / BS EN10226-2
- Available with NPT threads, subject to minimum quantities
- Minimizes transmission of vibration and noise
- Absorbs expansion, contraction and misalignment within allowable movements
- Precision moulded of synthetic rubber reinforced with nylon cord
- Can withstand chemical corrosion to resist acid and ozone attack
- Must not exceed allowable movement as per below table
- The pipes must be properly aligned and anchored prior to installation of flexible connectors (i.e. flexibles must not bear the weight of the pipes)
- The flexibles should be installed in their 'relaxed' state (i.e. not compressed, extended, twisted...etc)
- Electro galvanized malleable ends
- Other pressure ratings available upon request
- Other body material (NBR, Viton...etc) available upon request
- Hydrostatic Test Pressure
Shell - 24 bar

Material Specifications

Sl.	Component	Material
1	Outer Layer	EPDM
2	Reinforcement	Nylon Cord Fabric
3	Steel Wire	Carbon Steel
4	Bolt	Carbon Steel
5	Inner Layer	EPDM
6	Triangular Flanged Union	Malleable Iron

Dimensions (mm)

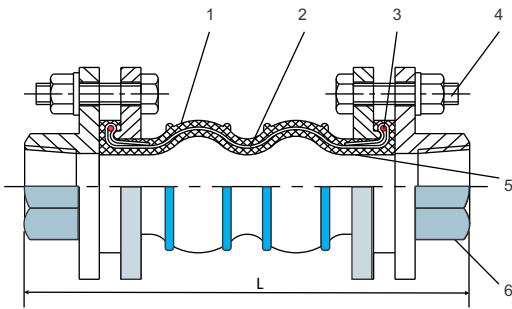
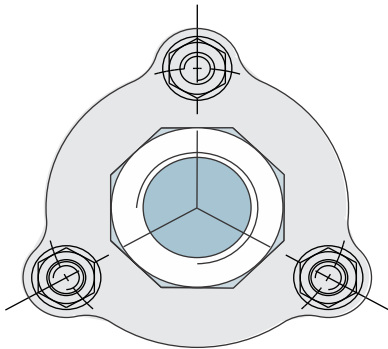
Nominal Core Diameter DN		Length (mm)	Axial Displacement (mm)		Lateral Displacement (mm)	Angle of Deflection (degrees)
(inches)	(mm)		Elongation	Compression		
½"	15	180	10	15	15	30
¾"	20	180	10	15	15	30
1"	25	180	10	15	15	30
1¼"	32	245	10	15	15	20
1½"	40	245	10	15	15	20
2"	50	245	10	15	15	20

All dimensions are nominal (indicative)
Actual dimensions may vary

We highly recommend to use with limited wiring



**DOUBLE SPHERE RUBBER FLEXIBLE CONNECTOR
WITH LIMITED WIRING PN16
RFFC16-LW 1/2" - 2"**



Features:

- Pressure Rating: PN16
- End connection: BS21 Taper Threaded (ISO7) / BS EN10226-2
- Available with NPT threads, subject to minimum quantities
- Minimizes transmission of vibration and noise
- Absorbs expansion, contraction and misalignment within allowable movements
- Precision moulded of synthetic rubber reinforced with nylon cord
- Can withstand chemical corrosion to resist acid and ozone attack
- Must not exceed allowable movement as per below table
- The pipes must be properly aligned and anchored prior to installation of flexible connectors (i.e. flexibles must not bear the weight of the pipes)
- The flexibles should be installed in their 'relaxed' state (i.e. not compressed, extended, twisted...etc)
- Electro galvanized malleable ends
- Other pressure ratings available upon request
- Other body material (NBR, Viton...etc) available upon request
- Hydrostatic Test Pressure
Shell - 24 barn request

Material Specifications

Sl.	Component	Material
1	Outer Layer	EPDM
2	Reinforcement	Nylon Cord Fabric
3	Steel Wire	Carbon Steel
4	Bolt	Carbon Steel
5	Inner Layer	EPDM
6	Triangular Flanged Union	Malleable Iron

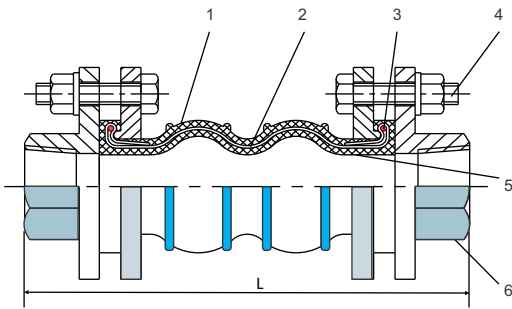
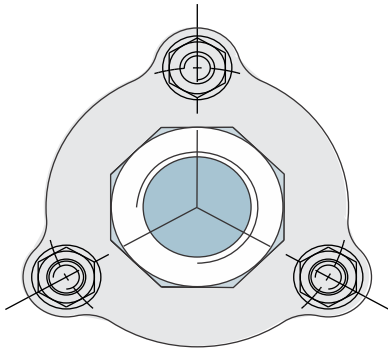
Dimensions (mm)

Nominal Core Diameter DN	Length	Axial Displacement (mm)		Lateral Displacement (mm)	Angle of Deflection (degrees)
		Elongation	Compression		
1/2"	15	180	10	15	30
3/4"	20	180	10	15	30
1"	25	180	10	15	30
1 1/4"	32	245	10	15	20
1 1/2"	40	245	10	15	20
2"	50	255	10	15	20

All dimensions are nominal (indicative)
Actual dimensions may vary



DOUBLE SPHERE RUBBER FLEXIBLE CONNECTOR WITH LIMITED WIRING PN25 RFFC25-LW 1/2" - 2"



Features:

- Pressure Rating: PN25
- End connection: BS21 Taper Threaded (ISO7) / BS EN10226-2
- Available with NPT threads, subject to minimum quantities
- Minimizes transmission of vibration and noise
- Absorbs expansion, contraction and misalignment within allowable movements
- Precision moulded of synthetic rubber reinforced with nylon cord
- Can withstand chemical corrosion to resist acid and ozone attack
- Must not exceed allowable movement as per below table
- The pipes must be properly aligned and anchored prior to installation of flexible connectors (i.e. flexibles must not bear the weight of the pipes)
- The flexibles should be installed in their 'relaxed' state (i.e. not compressed, extended, twisted...etc)
- Electro galvanized malleable ends
- Other pressure ratings available upon request
- Other body material (NBR, Viton...etc) available upon request
- Hydrostatic Test Pressure
Shell - 37.5 bar

Material Specifications

Sl.	Component	Material
1	Outer Layer	EPDM
2	Reinforcement	Nylon Cord Fabric
3	Steel Wire	Carbon Steel
4	Bolt	Carbon Steel
5	Inner Layer	EPDM
6	Triangular Flanged Union	Malleable Iron

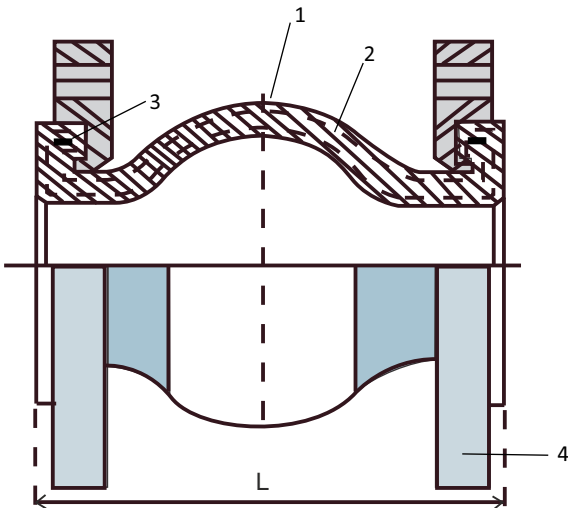
Dimensions (mm)

Nominal Core Diameter DN		Length (mm)	Axial Displacement (mm)		Lateral Displacement (mm)	Angle of Deflection (degrees)
(inches)	(mm)		Elongation	Compression		
1/2"	15	180	10	15	15	30
3/4"	20	180	10	15	15	30
1"	25	180	10	15	15	30
1 1/4"	32	245	10	15	15	20
1 1/2"	40	245	10	15	15	20
2"	50	255	10	15	15	20

All dimensions are nominal (indicative)
Actual dimensions may vary



FLANGED SINGLE BELLOW RUBBER FLEXIBLE CONNECTOR
PN16
RFFC16 2½" - 12"



Features:

- Pressure Rating: PN16
- Four way greater movements provide high level of installation flexibility
- Precision moulded of synthetic rubber reinforced with nylon cord
- Excellent ability to absorb vibration and sound, withstands high pressure
- Flanges drilled to BS4504 / BS EN1092-2
- The pipes must be properly aligned and anchored prior to installation of flexible connectors (i.e. flexibles must not bear the weight of the pipes)
- The flexibles should be installed in their 'relaxed' state (i.e. not compressed, extended, twisted...etc)
- Other flange standards available upon request
- Other pressure ratings available upon request
- Other body material (NBR, Viton...etc) available upon request
- Hydrostatic Test Pressure
Shell - 24 bar

Material Specifications

Sl.	Component	Material
1	Body	EPDM
2	Reinforcement	Nylon Cord Fabric
3	Wire	Hard Steel Wire
4	Flange	Mild Steel Zinc Plated

Dimensions (mm)

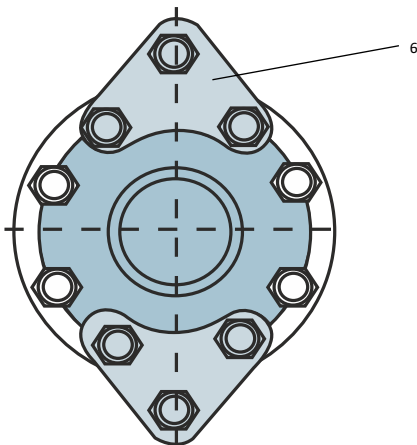
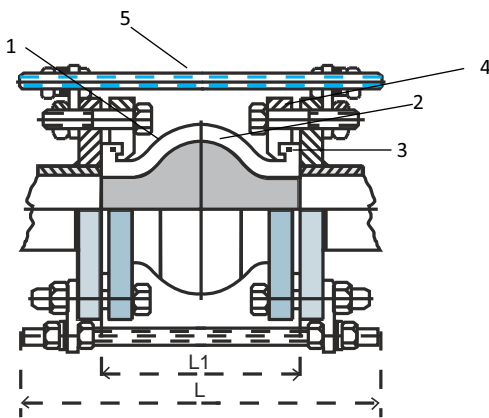
DN		Face to Face (L)	Allowable Movement			
Inches	mm		(mm)			(deg)
			Axial Compression	Axial Extension	Lateral Deflection	Angular Deflection
2½"	65	150	15	8	12	15
3"	80	150	15	8	12	15
4"	100	150	15	12	14	15
5"	125	150	15	12	14	15
6"	150	150	20	12	14	15
8"	200	150	25	12	22	15
10"	250	200	25	16	22	15
12"	300	200	25	16	22	15

All dimensions are nominal (indicative)
Actual dimensions may vary

- We highly recommend to use with control rods.
- Please note that control rods must be used
 - a. If the adjoining pipes are not fully anchored.
 - b. If the allowable movements are likely to be exceeded.
 - c. If the flexible is installed vertically.
- However, we recommend flexible connectors with control rods for all situations



FLANGED SINGLE BELLOW RUBBER FLEXIBLE CONNECTOR WITH CONTROL RODS PN16 RFFC16-CR 2½" - 24"



Features:

- Pressure Rating: PN16
- Four way greater movements provide high level of installation flexibility
- Precision moulded of synthetic rubber reinforced with nylon cord
- Excellent ability to absorb vibration and sound, withstands high pressure
- Flanges drilled to BS4504 / BS EN1092-2
- The pipes must be properly aligned and anchored prior to installation of flexible connectors (i.e. flexibles must not bear the weight of the pipes)
- The flexibles should be installed in their 'relaxed' state (i.e. not compressed, extended, twisted...etc)
- Other flange standards available upon request
- Other PN pressure ratings available upon request
- Other body material (NBR, Viton...etc) available upon request
- Hydrostatic Test Pressure
Shell - 24 bar

Material Specifications

Sl.	Component	Material
1	Body	EPDM
2	Reinforcement	Nylon Cord Fabric
3	Wire	Hard Steel Wire
4	Flange	Mild Steel Zinc Plated
5	Long Bolt	Mild Steel Zinc Plated
6	Triangle Restrict	Mild Steel Zinc Plated / Cast Iron

Dimensions (mm)

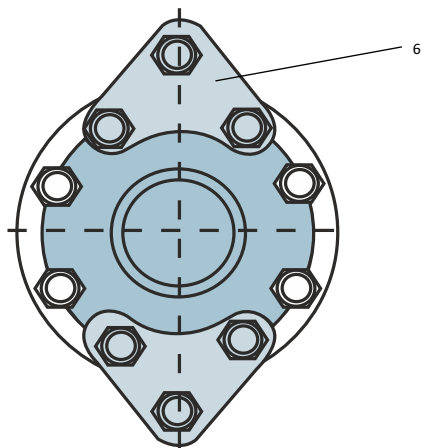
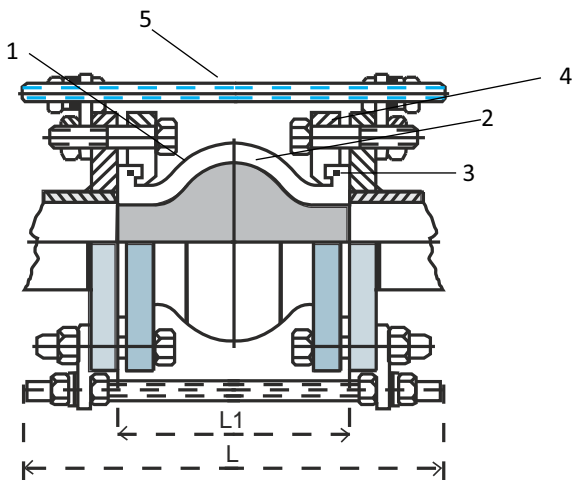
DN		L	L1	No. of Long Bolts
Inches	mm			
2½"	65	300	150	2
3"	80	310	150	2
4"	100	310	150	2
5"	125	310	150	2
6"	150	310	150	2
8"	200	340	150	2
10"	250	410	200	3
12"	300	410	200	3
14"	350	440	200	4
16"	400	440	200	4
18"	450	440	200	4
20"	500	440	200	4
24"	600	550	260	4

All dimensions are nominal (indicative). Actual dimensions may vary.

- Easy to align and install
- Movements are limited due to control rods
- Can be installed vertically. However, control rods must be installed in a proper way to ensure allowable movements are not exceeded, and that the flexible does not bear the weight of the pipe work



**FLANGED SINGLE BELLOW RUBBER FLEXIBLE CONNECTOR
WITH CONTROL RODS PN25
RFFC25-CR 2½" - 24"**



Features:

- Pressure Rating: PN25
- Four way greater movements provide high level of installation flexibility
- Precision moulded of synthetic rubber reinforced with nylon cord
- Excellent ability to absorb vibration and sound, withstands high pressure
- Flanges drilled to BS4504 / BS EN1092-2
- The pipes must be properly aligned and anchored prior to installation of flexible connectors (i.e. flexibles must not bear the weight of the pipes)
- The flexibles should be installed in their 'relaxed' state (i.e. not compressed, extended, twisted...etc)
- Other flange standards available upon request
- Other PN pressure ratings available upon request
- Other body material (NBR, Viton...etc) available upon request
- Hydrostatic Test Pressure
Shell - 37.5 bar
- Easy to align and install
- Movements are limited due to control rods
- Can be installed vertically. However, control rods must be installed in a proper way to ensure allowable movements are not exceeded, and that the flexible does not bear the weight of the pipe work

Material Specifications

Sl.	Component	Material
1	Body	EPDM
2	Reinforcement	Nylon Cord Fabric
3	Wire	Hard Steel Wire
4	Flange	Mild Steel Zinc Plated
5	Long Bolt	Mild Steel Zinc Plated
6	Triangle Restrict	Mild Steel Zinc Plated / Cast Iron

Dimensions - Unit (mm)

DN		L	L1	No. of Long Bolts
Inches	mm			
2½"	65	300	150	2
3"	80	310	150	2
4"	100	310	150	2
5"	125	310	150	2
6"	150	310	150	2
8"	200	340	150	2
10"	250	410	200	3
12"	300	410	200	3
14"	350	440	200	4
16"	400	440	200	4
18"	450	440	200	4
20"	500	440	200	4
24"	600	550	260	4

All dimensions are nominal (indicative)
Actual dimensions may vary



DUCTILE IRON SUCTION DIFFUSER PN16 RFSD16 2½" - 24"

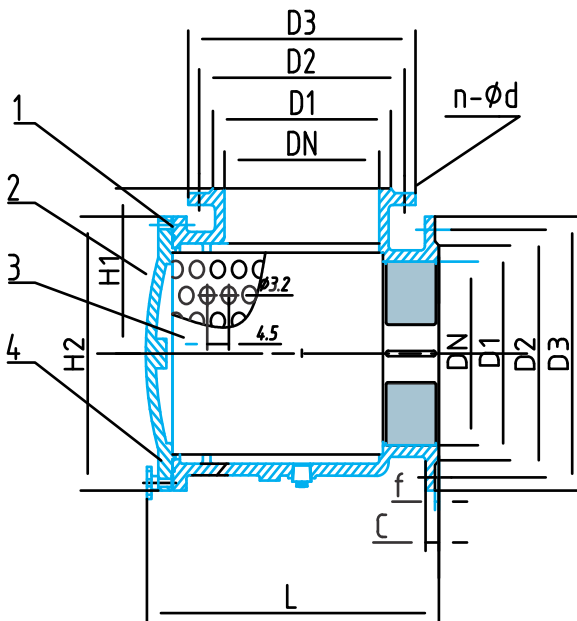


Features:

- Pressure Rating: PN16
- Working Medium: Water, Oil, Steam
- Flanged to BS EN1092-2
- Other pressure ratings available upon request
- ANSI Standards available upon request

Material Specifications

Sl.	Component	Material	
1	Body	EN-JS1040	Ductile Iron
2	Bonnet	EN-JS1040	Ductile Iron
3	Screen	BS970 304S15	Stainless Steel
4	Seal	EPDM	



Dimensions - Unit (mm)

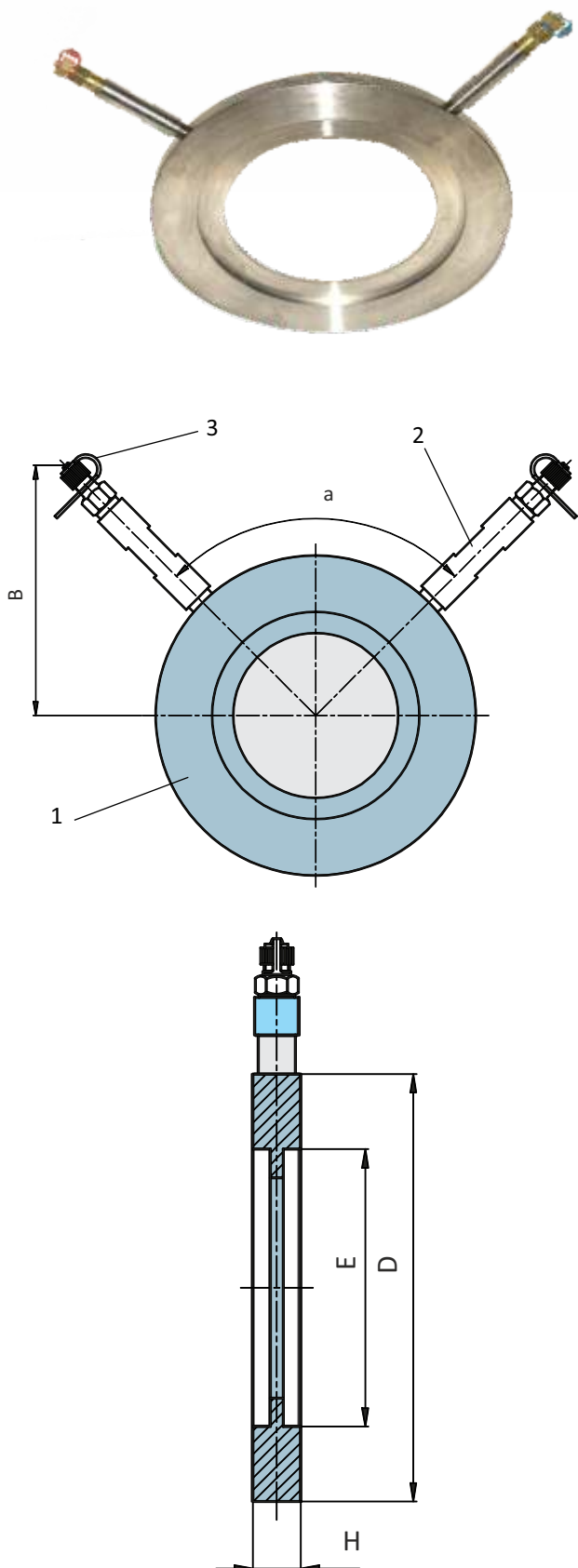
DN		D1	D2	D3	n-φd	H1	H2	L
Inches	mm							
2½"	65	118	145	185	4-19	127	128	270
3"	80	132	160	200	8-19	140	152	284
4"	100	156	180	220	8-19	165	190	328
5"	125	184	210	250	8-19	191	282	394
6"	150	211	240	285	8-23	203	328	423
8"	200	266	295	340	12-23	229	418	542
10"	250	319	355	405	12-28	279	496	678
12"	300	370	410	460	12-28	305	496	678
14"	350	429	470	520	16-28	318	496	678
16"	400	480	525	585	16-31	334	538	745
18"	450	548	585	640	20-31	370	598	785
20"	500	609	650	715	20-34	406	648	849
24"	600	720	770	840	20-37	470	788	974

All dimensions are nominal (indicative)
Actual dimensions may vary

STAINLESS STEEL METERING STATION

BS 7350 PN16

RFMS16 2½" - 24"



Features:

- Compliant to BS 7350
- Pressure rating: PN16
- Suitable to fit between BS EN1092-2 flanges

Material Specifications

Sl.	Component	Material
1	Body	SS304
2	Extension Tube	SS304
3	Test Points	DZR Brass

Dimensions (mm)

DN		D	E	H	B	a
Inches	mm					
2½"	65	127	68.7	18	112	90
3"	80	142	80.7	18	118	90
4"	100	162	105.1	18	125	90
5"	125	192	129.95	18	135	90
6"	150	218	155.4	18	145	90
8"	200	273	203.2	18	165	90
10"	250	329	254	18	185	90
12"	300	384	304.8	18	205	90
14"	350	444	337	21	222	90
16"	400	495	385	21	240	90
18"	450	555	432	21	261	90
20"	500	617	482	21	283	90
24"	600	734	591	25	325	90

All dimensions are nominal (indicative)
Actual dimensions may vary



FCU HOOK UP PN25 RFFCU25 ½" - 1"



Features:

- Quick and easy to install
- Raised handles to allow for insulation
- Flexible hoses can be adjusted to meet a variety center to center dimensions for different FCU's
- Fixed orifice metering station gives single KV value which allows for quick water balancing. Furthermore, it allows for easy and accurate measurement of flow.

Includes:

- Static Balancing Valve
- 2 Way Control Valve with actuator (Actuator details given separately)
- 3 full port Isolating Ball valves with extended handles for allowance of insulation (1 for supply, 1 for return & 1 for by-pass)
- 2 Flexible hoses for connection to FCU (standard length of approximately 300mm)
- 2 P/T Test Points
- Fixed Orifice Metering Station
- Standard orifice size is 7.5mm for flow range of 0.07 – 0.5 ltr/s

Mesh Details:

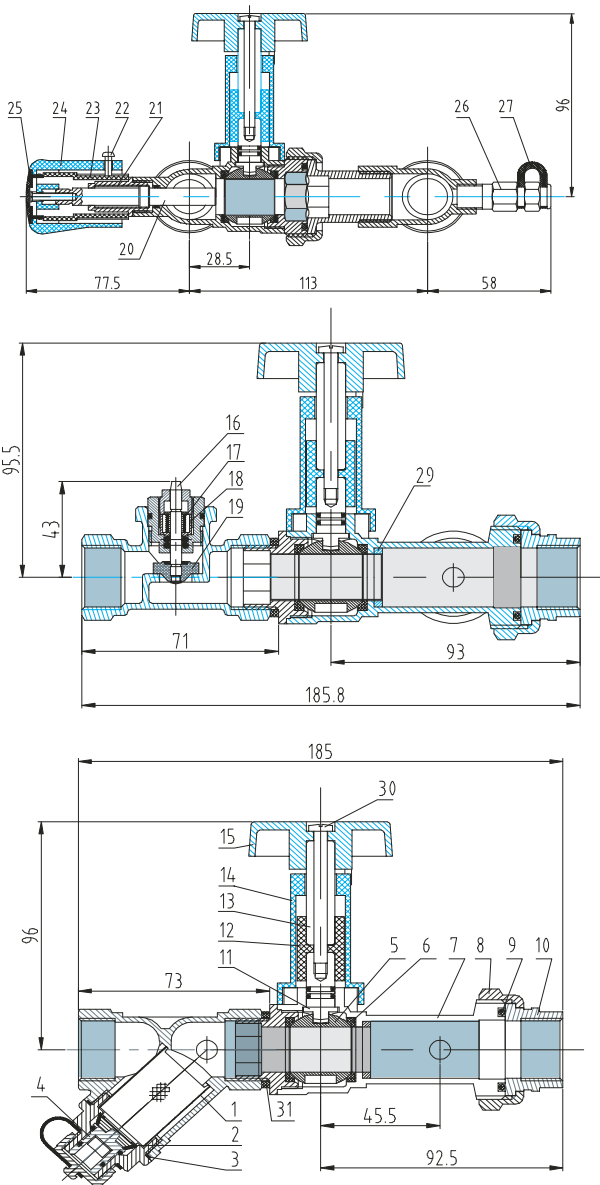
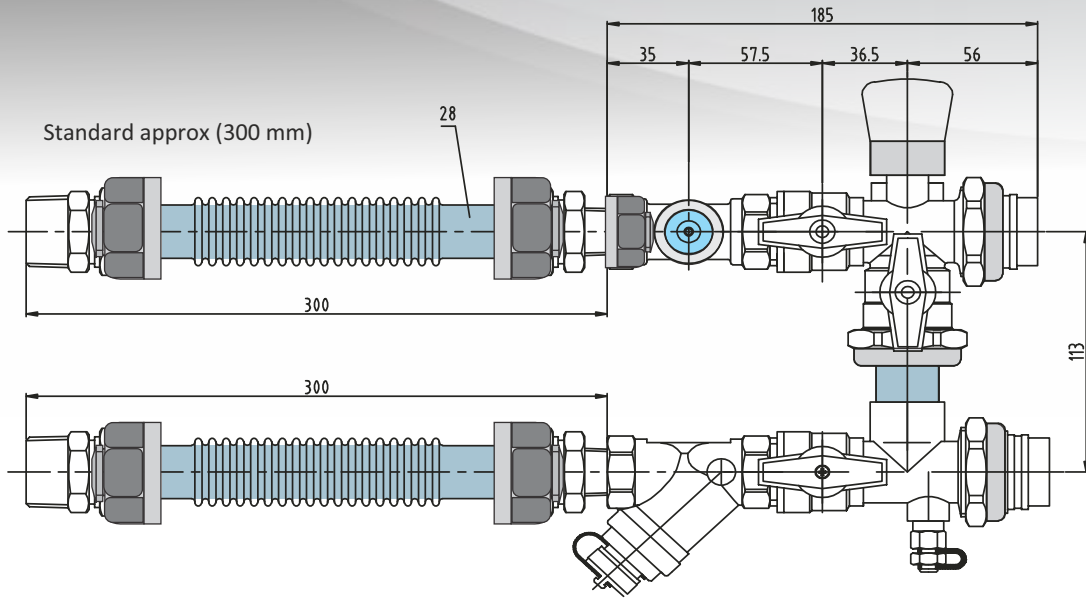
- Material: SS304
- Dia of Hole: 0.8mm
- Thickness of Mesh: 0.5mm
- Free area of percentage: about 52%
- Holes / cm²: 60

Notes:

- Static Pressure Rating: PN25
- Working Medium: Water
- Maximum Differential Pressure for 2 way valve: 4 Bar with our supplied actuator (details given separately)
- Standard size for hook-up: ¾"
- Available also in ½" & 1", subject to min. quantities
- Available with modulating 2 way control valve, subject to minimum quantities
- Other lengths of flexible hose available upon request, subject to minimum quantities
- Other sizes of orifice plate for lower and higher flow available upon request, subject to minimum quantities



**FCU HOOK UP
PN25**



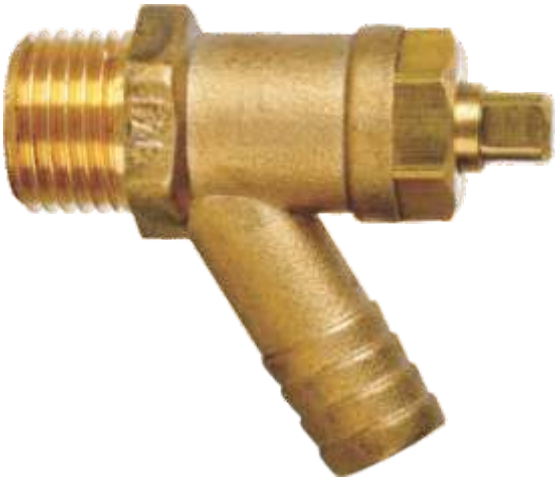
Material Specifications

No.	Component	Material
1	Mesh	Stainless Steel 304
2	Clamping Ring	Stainless Steel 304
3	Gasket	P.T.F.E
4	Valve Spool	DZR Brass CW602N
5	Ball	DZR Brass CW602N
6	Gasket	P.T.F.E.
7	Body	DZR Brass CW602N
8	Hexagonal Nut	DZR Brass CW602N
9	O Ring	N.B.R.
10	Female Nut	DZR Brass CW602N
11	Pin	DZR Brass CW602N
12	Stem Cover	ABS
13	Connecting Pin	DZR Brass CW602N
14	Spacing Cover	ABS
15	Handwheel	Aluminium Alloy
16	Stem	Stainless Steel 304
17	Spring	Stainless Steel 304
18	Spring Seat	Brass CW617N
19	Disc	N.B.R.
20	Adjust Staff	DZR Brass CW602N
21	Adjust Connector	DZR Brass CW602N
22	Screw	Stainless Steel 304
23	Scale Cover	ABS
24	Handwheel	Aluminium Alloy
25	Handwheel Cover	ABS
26	Test Points	DZR Brass CW602N
27	Connecting Belt	N.B.R.
28	Flexible Hose	Stainless Steel 304
29	Orifice Plate	DZR Brass CW602N
30	Crisscross Screw	Stainless Steel 304
31	Gasket	P.T.F.E.

All dimensions are nominal (indicative)
Actual dimensions may vary



DZR BRASS DRAINING COCK BS 2879 PN16 RFDC16 1/2" - 1"

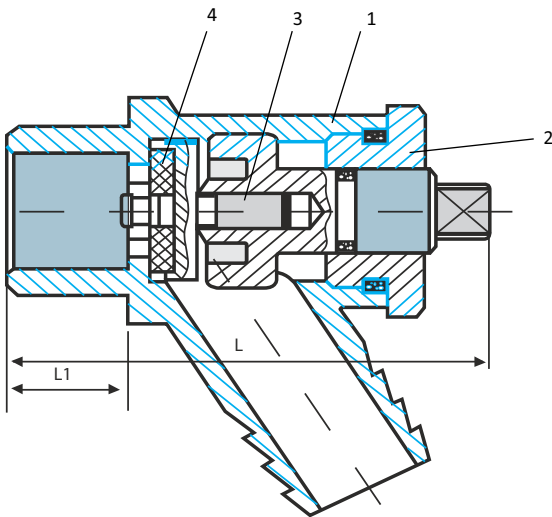


Features:

- Designed to BS 2879
- Pressure rating: PN16
- Working medium: Water
- BS21 Taper threaded (ISO7) / BS EN10226-2

Material Specifications

Sl.	Component	Material
1	Body	DZR Brass CW602N
2	Bonnet	DZR Brass CW602N
3	Stem	DZR Brass CW602N
4	Disc	DZR Brass CW602N



Dimensions - Unit (mm)

DN		L	L1
Inches	MM		
1/2"	15	56	13
3/4"	20	64	16
1"	25	89	19

All dimensions are nominal (indicative)
Actual dimensions may vary



BRASS BIBCOCK WITH HOSE UNION
PN16
RFHU1320 1/2" - 3/4"

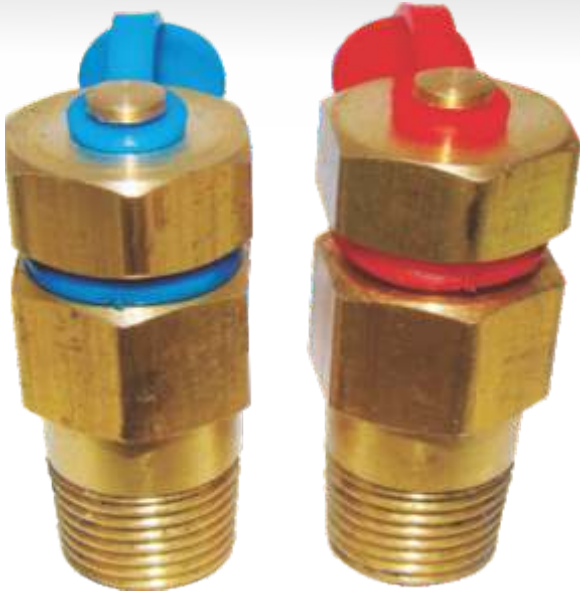


Features:

- Pressure rating: PN16
- Brass Body



TEST POINT
PN25
RFTP25 1/4"



Features:

- Pressure rating: PN25
- DZR Body
- Size: 1/4"



STAINLESS STEEL FLEXIBLE HOSE WITH THREADED BRASS COUPLING PN16 RFFH-16 ½" - 2"



Features:

- Pressure rating: PN16
- BS21 Taper Threaded (ISO7)
- Available with male / female end connection
- Available from ½" to 2"
- Length: 300mm

Material Specifications

COMPONENT	MATERIAL
End Connection	Brass
Bellow	SS304
Mesh	SS304



STAINLESS STEEL FLEXIBLE HOSE WITH THREADED BRASS COUPLING PN25 RFFH-25 1/2" - 2"



Features:

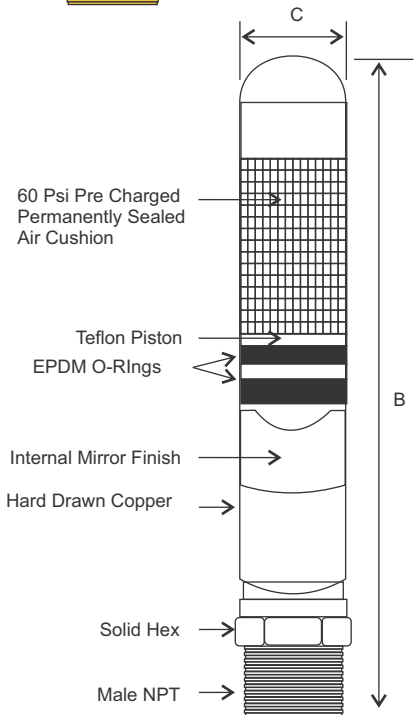
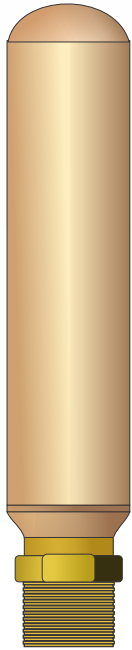
- Pressure rating: PN25
- BS21 Taper Threaded (ISO7)
- Available with male / female end connection
- Available from 1/2" to 2"
- Length: 300mm

Material Specifications

COMPONENT	MATERIAL
End Connection	Brass
Bellow	SS304
Mesh	SS304



WATER HAMMER ARRESTOR RFHA



Features:

- Pre-charged hard drawn copper surge pressure absorber with Teflon Piston, EPDM O-Ring seals and Male NPT connection
- Pressure : Max. working Pressure - 350 psi (24 bar)
- Temperature : Max. working Temperature - 250°F (121°C)
- Bodies : Hard drawn copper with custom internal mirror finish
- Seal Lubricant :Dow-corning Silicone compound
- Piston : Teflon
- Seals : O-Rings (2), EPDM
- Threaded Adaptor : Brass
- Can be installed at any angle, new or existing plumbing systems with a standard pipe tee

	RFHA-250K	RFHA-500K	RFHA-750K	RFHA-1000K	RFHA-1250K	RFHA-1500K	RFHA-2000K
Fixture Unit	1-3	1-11	12-32	33 - 60	61 - 113	114 - 154	155 - 330
A – Connection	½" (13)	½" (13)	¾" (19)	1" (25)	1" (25)	1" (25)	1" (25)
B – Height	5" (129)	6" (152)	7-½" (175)	8-¾" (222)	10-½" (267)	11-½" (292)	14-7/8" (378)
C – Diameter	1-1/8" (28)	1-1/8" (28)	1-1/8" (28)	1-3/8" (35)	1-¾" (44)	1-7/8" (48)	1-7/8" (48)
Plumbing Code	AA	A	B	C	D	E	F



RHINO**FITT**^{UK}

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