

WESO



PRODUCT CATALOGUE

INTRODUCTION

WESO is a worldwide leading brand with headquarters in London, United Kingdom, offering an exceptional range of products under stringent quality control as per ISO 9001:2015.

WESO products are distinctive in high quality and standard, gratifying customers across the world. Furthermore, our extensive selection of manual and electrical valves, consistently satisfies our customers to great extents. Our valves and accessories range from 15mm to 2000mm.

All of our basic and primary operations, as well as quality checks, are carried out at our headquarters in London, United Kingdom. Our facilities are located in UK and Europe in addition to OEM factories around the world. In our workshops, we have the finest of technologies and amply qualified engineers who have extensive experience with our wide range of products.

Moreover, our stringent quality control process covers every stage of the manufacturing process, from design to aftermarket support and our technical team of experts will aid you every step of the way. Our after-sales support team will be available to help clients with any aspect of the project; they are extremely dedicated and knowledgeable in their field.

WESO manual and electrical valves are applicable for water applications including HVAC, plumbing, Chiller plants, Networks, ETS rooms and infrastructure. We are committed to producing high-quality products from the concept stage through the entire development process.

WESO has an extensive distribution channel allowing us to ensure product delivery in an extremely efficient timeframe. Our continuous improvement has kept us at the forefront of our industry.



QUALITY ASSURANCE

Every single product of ours is designed and manufactured under Quality Management Systems that comply with BS/EN 9001:2015.

Furthermore, the Quality Management System assists us in achieving the company's Quality Policy by ensuring product quality and promoting continuous improvement of all of its manufacturing facilities. We are globally recognised for our quality policy, which includes a set of objectives and commitments to ensure every product and service supplied exceeds ISO 9001:2005 standards and that client orders are delivered on time by eliminating all dimensions of customer complaints.

WESO products are manufactured and tested as per the international standards BS/EN and American standards ANSI.

Our Quality Management System is regularly evaluated to ensure its applicability and effectiveness by monitoring and dynamically changing the product's quality objectives to improve product and service performance.

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BALANCING VALVES

Fig. WDT-253



Features & Benefits

- Precise flow regulation
- Accuracy of $\pm 5\%$ on all settings
- Integral orifice plate equipped with self-sealing measuring point

Specifications

- Designed to BS 7350
- Y pattern globe valve with characterised throttling disc
- Handwheel operator with memory stop and numerical indicator
- Rising stem, inside screw with non-rising handwheel
- Integral orifice plate equipped with self-sealing measuring points (Fig. WTP-252)
- Taper threaded to BS EN 10226-2 (ISO-7) formerly BS 21
- NPT threading available on request

MATERIAL SPECIFICATION

Description	Material
Body	Bronze CC491K
Disc Face $\frac{1}{2}$ - $\frac{3}{4}$ "	DZR Brass CW602N
Disc Face 1 - 2"	PTFE
Disc & Retaining Ring	DZR Brass CW602N
Orifice Plate	DZR Brass CW602N
Bonnet $\frac{1}{2}$ - $\frac{1}{4}$ "	DZR Brass CW602N
Bonnet $1\frac{1}{2}$ - 2"	Bronze CC491K
Stem	DZR Brass CW602N
Handwheel & Cap	Polyamide
Test Points	DZR Brass CW602N

DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	Weight (kg)
15	$\frac{1}{2}$	87	105	0.58
20	$\frac{3}{4}$	96	106	0.65
25	1	100	127	0.89
32	$1\frac{1}{4}$	114	128	1.11
40	$1\frac{1}{2}$	125	143	1.46
50	2	146	144	1.98

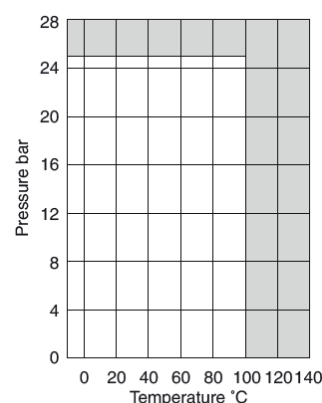
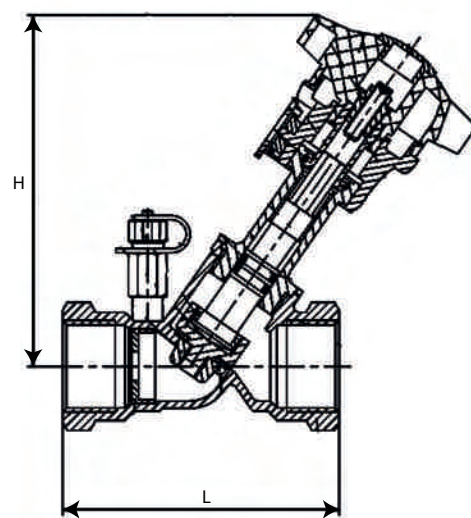
All dimensions are nominal (indicative). Actual dimensions may vary.

Pressure/Temperature Rating

- 25 Bar from -10°C to 100°C

Test Pressure

- Shell: 37.5 bar
- Seat: 27.5 bar



Double Regulating Valve - Fixed Orifice PN16

WESO

Fig. WDF-165



Features & Benefits

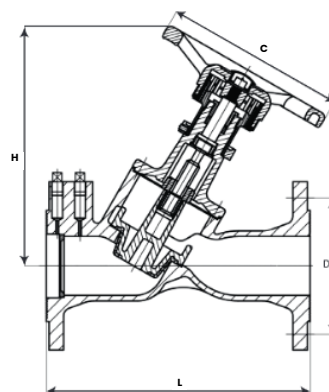
- Precise flow regulation
- Accuracy of $\pm 5\%$ on all settings
- Integral orifice plate equipped with self-sealing measuring point

Specifications

- Designed to BS 7350
- Globe type Y pattern
- Rising stem, inside screw with non-rising handwheel
- Handwheel operator with memory stop and numerical indicator
- EPDM coated ductile iron disc
- Integral orifice plate equipped with self-sealing measuring points (Fig. WTP-252)
- Flanged to BS/EN 1092-2 PN16 formerly BS 4504
- ANSI flange drilling available on request

MATERIAL SPECIFICATION

Description	Material
Body	Ductile Iron - BS/EN 1563
Bonnet	Ductile Iron - BS/EN 1563
Bonnet Gasket	EPDM
Disc	EPDM coated Ductile Iron
Stem	Stainless Steel Type 410
Orifice Plate	Brass CW614N
Test Points	DZR Brass CW602N
Packing	Graphite
Handwheel	Ductile Iron - BS/EN 1563



DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	C (mm)	D (mm)	N-ØD	Weight (kg)
65	2½	290	265	200	145	4-19	17
80	3	310	270	200	160	8-19	20
100	4	350	310	240	180	8-19	29
125	5	400	340	290	210	8-19	40
150	6	480	340	290	240	8-23	52
200	8	600	537	350	295	12-23	113
250	10	730	570	420	355	12-28	185
300	12	850	690	420	410	12-28	248

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

Pressure/Temperature Rating

- 16 Bar from -10°C to 120°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar

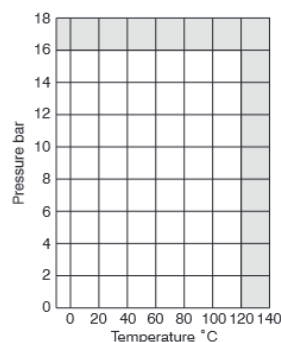


Fig. WDF-255



Features & Benefits

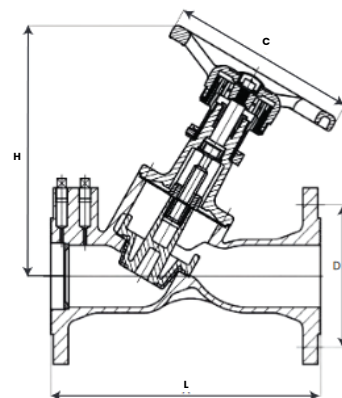
- Precise flow regulation
- Accuracy of $\pm 5\%$ on all settings
- Integral orifice plate equipped with self-sealing measuring points

Specifications

- Designed to BS 7350
- Globe type Y pattern
- Rising stem, inside screw with non-rising handwheel
- Handwheel operator with memory stop and numerical indicator
- EPDM coated ductile iron disc
- Integral orifice plate equipped with self-sealing measuring points (Fig. WTP-252)
- Flanged to BS/EN 1092-2 PN25 formerly BS 4504
- ANSI flange drilling available on request
- WRAS approved epoxy coating available on request

MATERIAL SPECIFICATION

Description	Material
Body	Ductile Iron - BS EN 1563
Bonnet	Ductile Iron - BS EN 1563
Bonnet Gasket	EPDM
Disc	EPDM coated Ductile Iron
Stem	Stainless Steel Type 410
Orifice Plate	Brass CW614N
Test Points	DZR Brass CW602N
Packing	Graphite
Handwheel	Ductile Iron - BS/EN 1563



DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	C (mm)	D (mm)	N-ØD	Weight (kg)
65	2½	290	265	200	145	8-19	18
80	3	310	270	200	160	8-19	21
100	4	350	310	240	190	8-23	30
125	5	400	340	290	220	8-28	41
150	6	480	340	290	250	8-28	54
200	8	600	537	350	310	12-28	115
250	10	730	570	420	370	12-31	190
300	12	850	690	420	430	16-31	253

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

Pressure/Temperature Rating

- 25 Bar from -10°C to 120°C

Test Pressure

- Shell: 37.5 bar
- Seat: 27.5 bar

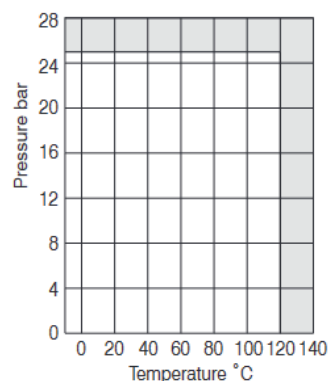
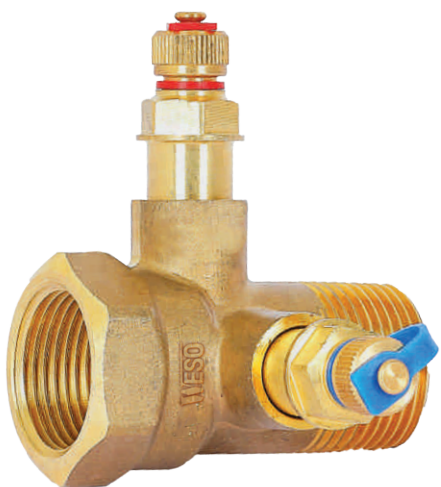


Fig. WMW-202



Features & Benefits

- Precise and accurate measurement
- Equipped with self-sealing measuring points (test points)
- Dezincification-resistant brass body

Specifications

- Designed to BS 7350
- Equipped with self-sealing measuring points
- Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS 21
- NPT threading available on request

MATERIAL SPECIFICATION

Description	Material
Body	DZR Brass CW602N
Gaskets	EPDM
Test Points	DZR Brass CW602N

DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	Weight (kg)
15	½	58	53	0.20
20	¾	60	56	0.23
25	1	68	59	0.33
32	1¼	72	62	0.47
40	1½	74	66	0.51
50	2	82	71	0.78

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

Pressure/Temperature Rating

- 20 Bar from -10°C to 100°C
- 15 bar at 120°C

Test Pressure

- Shell: 30 bar

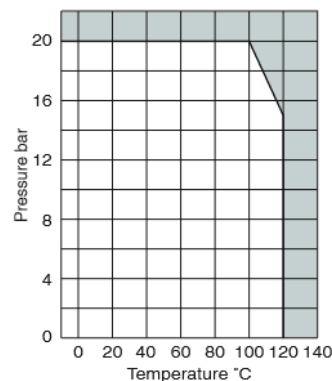
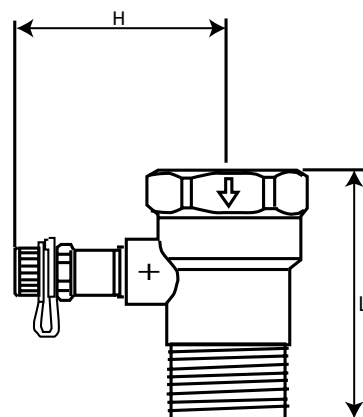


Fig. WMW-166



Features & Benefits

- Compact wafer design
- Accurate flow measurement
- Supplied with test points and extension sleeve

Specifications

- Conforms to BS 7350
- Complete with extensions and test points (Fig. WTP-252)
- Suitable for BS/EN 1092 PN16 flanges
- Other flange standards available on request

MATERIAL SPECIFICATION

Description	Material
Body	Stainless Steel Type 304
Extension Sleeve	Stainless Steel Type 304
Test Points (FLTP)	DZR Brass CW602N

DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	D (mm)	a°	Weight (kg)
65	2½	127	18	114	90	1.3
80	3	142	18	119	90	1.6
100	4	162	18	126	90	1.8
125	5	194	18	138	90	2.4
150	6	218	18	146	90	2.7
200	8	273	18	166	90	3.8
250	10	329	18	185	90	5.1
300	12	384	18	205	90	6.5
350	14	444	22	226	90	12.5
400	16	495	22	244	90	14.7
450	18	555	22	265	90	18.4
500	20	617	22	287	90	22.6
600	24	734	26	329	90	37.6

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

Pressure/Temperature Rating

- 16 Bar from -10°C to 120°C

Test Pressure

- Shell: 24 bar

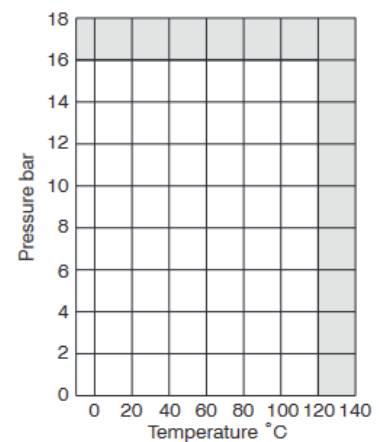
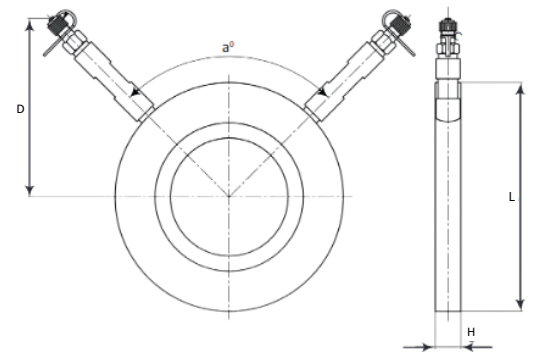


Fig. WMW-256



Features & Benefits

- Compact wafer design
- Accurate flow measurement
- Supplied with test points and extension sleeve

Specifications

- Conforms to BS 7350
- Complete with extensions and test points (Fig. WTP-252)
- Suitable for BS/EN 1092 PN25 flanges
- Other flange standards available on request

MATERIAL SPECIFICATION

Description	Material
Body	Stainless Steel Type 304
Extension Sleeve	Stainless Steel Type 304
Test Points (FLTP)	DZR Brass CW602N

DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	D (mm)	a°	Weight (kg)
65	2½	127	18	114	90	1.3
80	3	142	18	119	90	1.6
100	4	168	18	128	90	2.0
125	5	194	18	138	90	2.4
150	6	224	18	148	90	3.0
200	8	284	18	169	90	4.5
250	10	340	18	189	90	5.9
300	12	400	18	211	90	7.9
350	14	457	22	231	90	14.1
400	16	514	22	251	90	17.4
450	18	564	22	268	90	19.8
500	20	624	22	290	90	23.8
600	24	731	26	328	90	36.9

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

Pressure/Temperature Rating

- 25 Bar from -10°C to 120°C

Test Pressure

- Shell: 37.5 bar

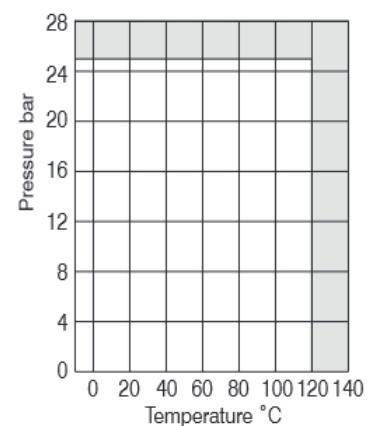
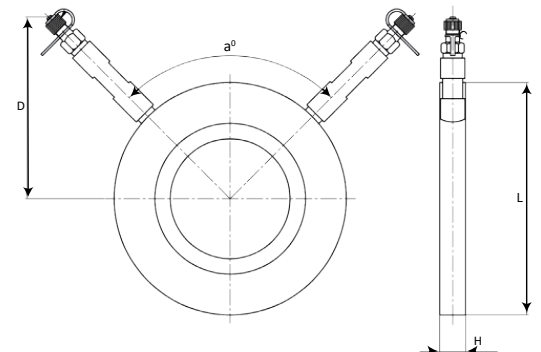


Fig. WLT-163



Features & Benefits

- Bronze body of exceptional quality
- Rising stem with threaded bonnet

Specifications

- Designed to BS 5154
- Threaded bonnet
- Rising Stem
- Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS 21
- NPT threading available on request

MATERIAL SPECIFICATION

Description	Material
Body	Bronze CC491K
Bonnet	Bronze CC491K
Stem	DZR Brass CW602N
Packing Nut	Brass CW617N
Packing	PTFE
Disc (½-1")	DZR Brass CW602N
Disc (1¼-2")	Bronze CC491K
Handwheel	Aluminium

DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	D (mm)	Weight (kg)
15	½	49	71	52	0.24
20	¾	59	73	60	0.34
25	1	66	87	65	0.51
32	1¼	74	95	70	0.70
40	1½	85	110	78	1.03
50	2	100	124	92	1.59

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

Pressure/Temperature Rating

- 16 Bar from -10°C to 100°C
- 7 Bar at 170°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar

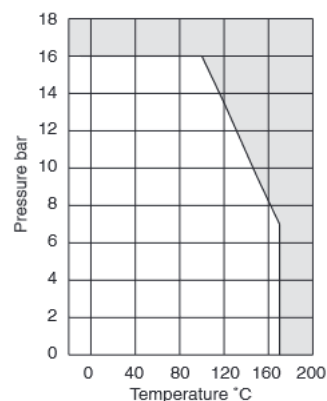
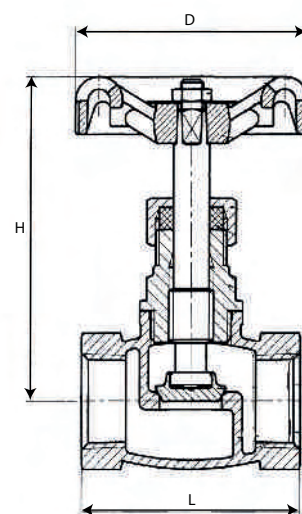


Fig. WLF-164



Features & Benefits

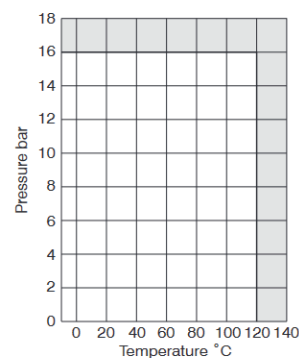
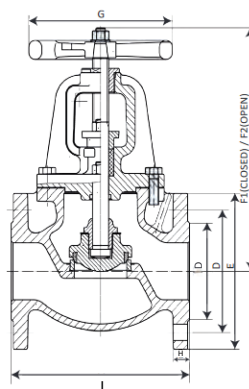
- Outside screw pattern with rising stem
- Bronze mounted

Specifications

- Designed to BS EN 13789 formerly BS 5152
- Outside screw pattern with rising stem
- Bolted bonnet
- Bronze trim
- Handwheel operated
- Face to face dimensions to BS EN 558-1 basic series 10
- Flanged to BS EN 1092-2 PN16 formerly BS 4504
- ANSI flange drilling available on request

MATERIAL SPECIFICATION

Description	Material
Body	Cast Iron BS EN 1561
Bonnet	Cast Iron BS EN 1561
Disc	Cast Iron BS EN 1561
Body Seat Ring	Bronze CC491K
Disc Seat Ring	Bronze CC491K
Stem	Stainless Steel Type 420
Gasket	Graphite
Packing	Graphite
Handwheel	Cast Iron BS EN 1561



DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	D (mm)	D (mm)	E (mm)	F1 (mm)	F2 (mm)	G (mm)	N-ØD	Weight (kg)
65	2½	216	20	118	145	185	278	301	178	4-19	22
80	3	241	22	132	160	200	323	353	200	8-19	26
100	4	292	24	156	180	220	365	403	254	8-19	41
125	5	330	26	184	210	250	417	462	300	8-19	61
150	6	356	26	211	240	285	472	529	300	8-23	87
200	8	495	30	266	295	340	533	605	348	12-23	141
250	10	622	32	319	355	405	550	640	400	12-28	218
300	12	698	32	370	410	460	622	738	457	12-28	286

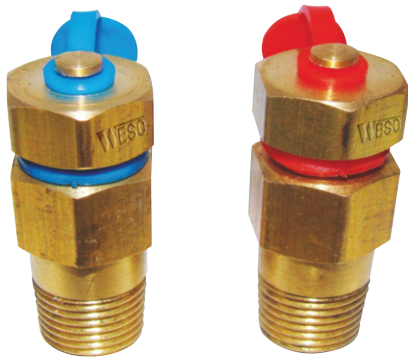
Pressure/Temperature Rating

- 16 Bar from -10°C to 120°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar

Fig. WTP-252



Features & Benefits

- Excellent sealing performance and wear resistance
- Red and blue cap retainers for upstream and downstream port identification

Specifications

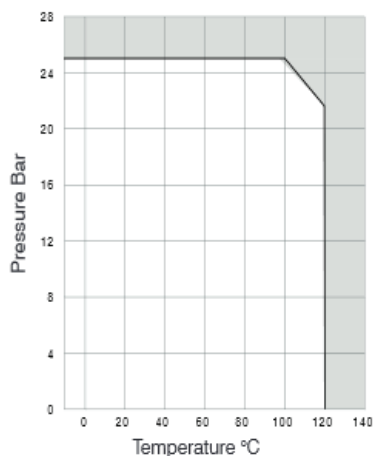
- Dezincification-resistant body
- Elastomeric core providing excellent sealing
- 1/4" Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS21
- NPT threading available on request

MATERIAL SPECIFICATION

Description	Material
Body	DZR Brass CW602N
Seal	EPDM
Cap	Brass CW617N
Cap Washer	EPDM
Tie	TPEE
Retaining Ring	DZR Brass CW602N

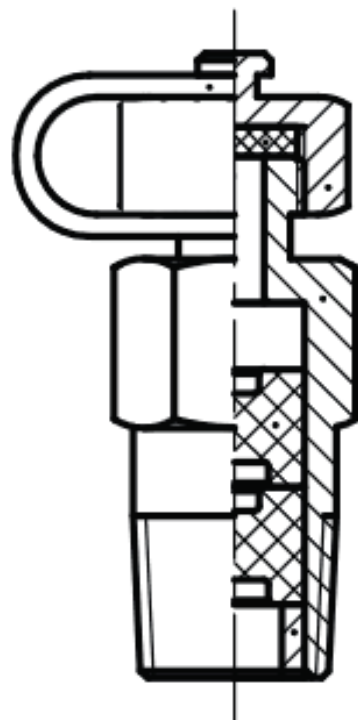
Pressure/Temperature Rating

- 25 Bar from -10°C to 100°C
- 21.8 bar at 120°C



Test Pressure

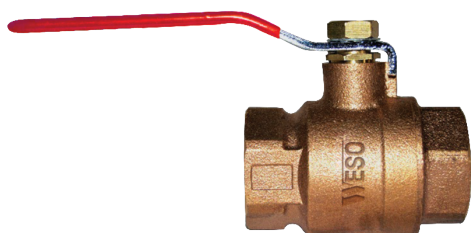
- Shell: 37.5 bar



BALL VALVES

Ball Valve - Lever Operated PN25

Fig. WBT-253



Features & Benefits

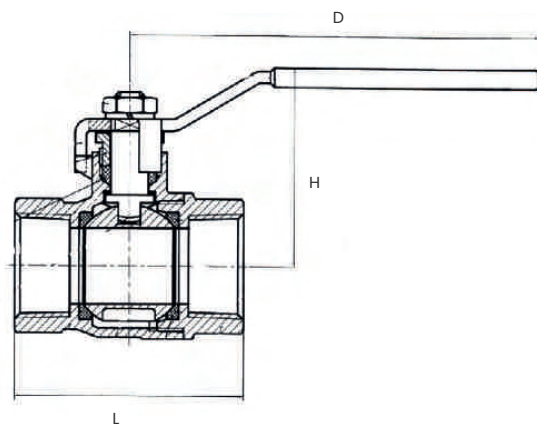
- High quality bronze body
- Full bore
- Lever operated

Specifications

- Blow-out proof stem
- Quarter turn, lever operated
- Full bore chrome plated ball
- Two piece body
- PTFE seats and stem seals
- Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS 21
- NPT threading available on request

MATERIAL SPECIFICATION

Description	Material
Body	Bronze CC491K
Seat Retainer	Bronze CC491K
Ball	Brass CW617N (Chrome Plated)
Seat	PTFE
Stem	DZR Brass CW602N
Packing	PTFE
Gland Nut	Brass CW617N
Lever	Chrome Plated Mild Steel
Lever Cover	PVC



DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	D (mm)	Weight (kg)
15	1/2	53	44	95	0.23
20	3/4	61	51	110	0.37
25	1	71	55	110	0.54
32	1 1/4	85	65	140	0.84
40	1 1/2	92	70	140	1.13
50	2	114	83	160	1.88

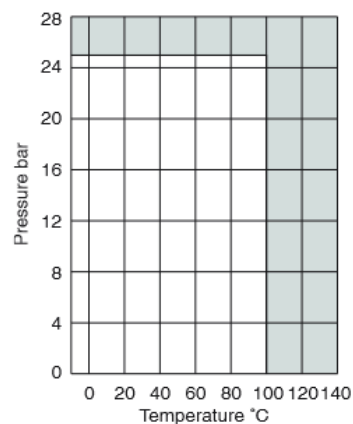
All dimensions are nominal (indicative). Actual dimensions may vary.

Pressure/Temperature Rating

- 25 Bar from -10°C to 100°C

Test Pressure

- Shell: 37.5 bar
- Seat: 27.5 bar



Ball Valve - Lever Operated PN25

Fig. WBT-252



Features & Benefits

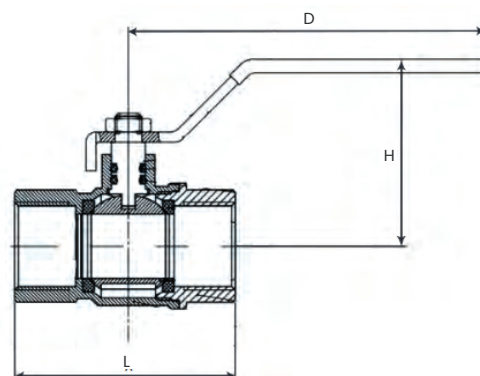
- Dezincification resistant brass body
- Full bore
- Lever operated

Specifications

- Blow-out proof stem
- Quarter turn, lever operated
- Full bore chrome plated ball
- Two piece body
- PTFE seats
- Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS 21
- NPT threading available on request

MATERIAL SPECIFICATION

Description	Material
Body	DZR Brass CW602N
Seat Retainer	DZR Brass CW602N
Ball	DZR Brass CW602N (Chrome Plated)
Seat	PTFE
Stem	DZR Brass CW602N
O-Rings (Packing)	EPDM & HNBR
Lever	Stainless Steel Type 304
Lever Cover	PVC



DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	D (mm)	Weight (kg)
15	½	60	45	92	0.21
20	¾	67	50	92	0.29
25	1	76	56	105	0.44
32	1¼	93	73	134	0.75
40	1½	101	78	134	1.00
50	2	122	93	144	1.66

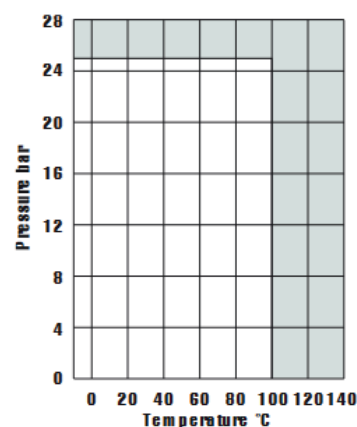
All dimensions are nominal (indicative). Actual dimensions may vary.

Pressure/Temperature Rating

- 25 Bar from -10°C to 100°C

Test Pressure

- Shell: 37.5 bar
- Seat: 27.5 bar



Ball Valve: Extended Stem Lever – Type PN25

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Fig. WBTX-252



Features & Benefits

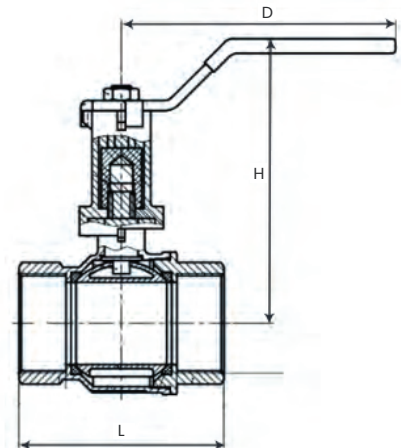
- Dezincification resistant brass body
- Full bore
- Extended stem
- Lever operated

Specifications

- Blow-out proof stem
- Extended stem
- Quarter turn, lever operated
- Full bore chrome plated ball
- Two piece body
- PTFE seats
- Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS 21
- NPT threading available on request

MATERIAL SPECIFICATION

Description	Material
Body	DZR Brass CW602N
Seat Retainer	DZR Brass CW602N
Ball	DZR Brass CW602N (Chrome Plated)
Seat	PTFE
Stem	Brass CW614N
O-Rings (Packing)	EPDM & HNBR
Extension Stem	Brass CW614N
Extension Housing	Brass CW614N
Lever	Stainless Steel Type 304
Lever Cover	PVC



DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	D (mm)	Weight (kg)
15	½	60	84	92	0.27
20	¾	67	87	92	0.35
25	1	76	95	105	0.51
32	1¼	93	108	134	0.87
40	1½	101	114	134	1.13
50	2	122	130	144	1.79

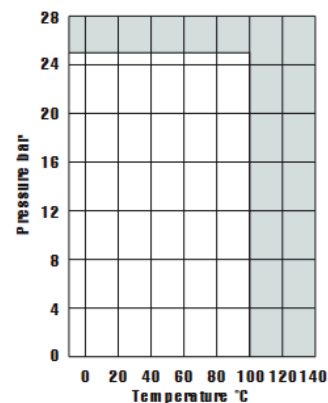
All dimensions are nominal (indicative). Actual dimensions may vary.

Pressure/Temperature Rating

- 25 Bar from -10°C to 100°C

Test Pressure

- Shell: 37.5 bar
- Seat: 27.5 bar



BUTTERFLY VALVES

Butterfly Valve: Semi-Lugged Wafer Pattern PN16

WESO

**Fig. WFWL-165
& WFWG-165**



Features & Benefits

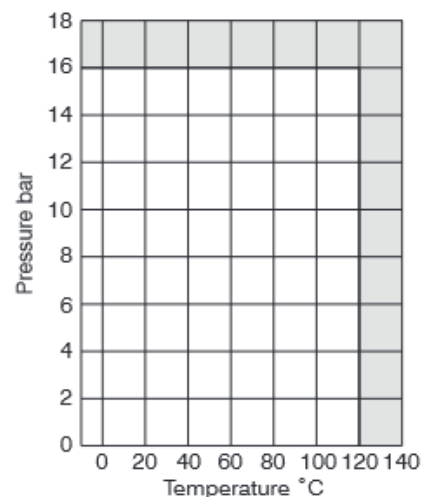
- Wafer-type semi-lugged body of ductile iron
- Long neck design for insulation

Specifications

- BS/EN 593 compliant
- Conformity of the top flange to ISO 5211
- BS/EN 558 basic series 20 face-to-face measurements
- BS/EN 1092 PN16 flanges are compatible.
- For sizes up to DN150, a lever operator with a latch-lock is available.
- DN200 and larger are equipped with a fully enclosed gear operator as standard.
- Electric actuators are available
- Operators with a gearbox and chain wheels are available.
- A lockable gearbox is available.
- On request, other flange standards are available.

MATERIAL SPECIFICATION

Description	Material
Body	Ductile Iron BS/EN 1563
Shaft	Stainless Steel Type 416
Seat	EPDM
O-Ring	EPDM
Bushing	PTFE
Disc	1. Ductile Iron Nickel Plated 2. Stainless Steel Type 304 3. Stainless Steel Type 316 4. Aluminium Bronze
Taper Pin	Stainless Steel Type 304
Lever	Cast Iron BS/EN 1561
Gear Box	Ductile Iron BS/EN 1563



DIMENSIONS & WEIGHT

Fig. WFWL-165 DN65-DN150 (Lever type)

DN	Inches	A (mm)	B (mm)	C (mm)	L (mm)	P (mm)	Weight (kg)
65	2½	89	174	32	45	260	3.6
80	3	95	181	32	45	260	4.2
100	4	114	200	32	52	260	5.8
125	5	127	213	32	54	260	7.0
150	6	139	225	32	56	260	9.0

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

Pressure/Temperature Rating

- 16 Bar from -10°C to 120°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar

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Fig. WFWG-165 DN65-DN600 (Gear type)

DN	Inches	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)	Weight (kg)
65	2½	89	174	45	53	150	230	38	178	32	45	7
80	3	95	181	45	53	150	230	38	178	32	45	7.5
100	4	114	200	45	53	150	230	38	178	32	52	9
125	5	127	213	45	53	150	230	38	178	32	54	10.5
150	6	139	225	45	53	150	230	38	178	32	56	12.5
200	8	177	260	63	76	300	310	41	235	38	60	21
250	10	203	292	63	76	300	310	41	235	38	66	27
300	12	242	337	81	81	300	305	42	226	38	77	40
350	14	277	368	81	81	300	305	42	226	45	77	46
400	16	308	400	95	125	360	317	48	217	51	102	75
450	18	342	422	95	125	360	317	48	217	51	114	89
500	20	374	479	185	160	360	480	115	320	64	130	128
600	24	459	562	185	160	360	520	120	335	70	152	206

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

Butterfly Valve - Semi-lugged Wafer Pattern PN16

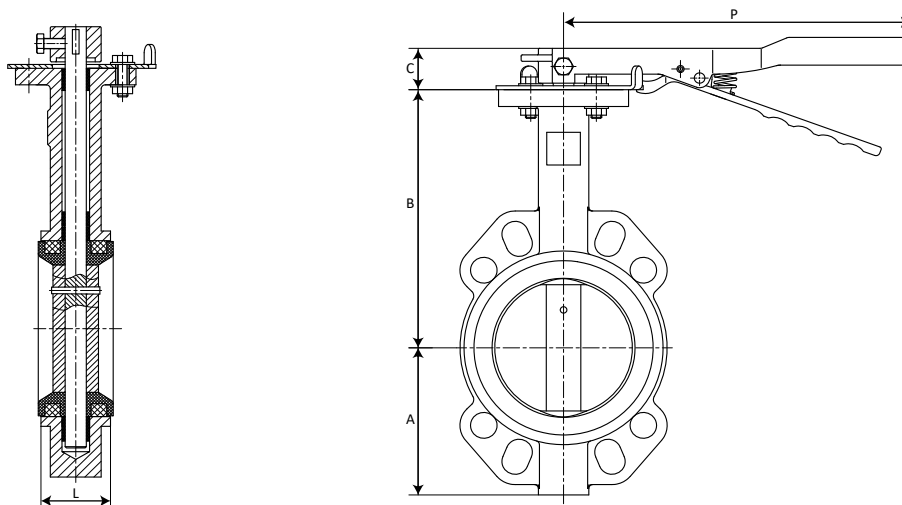


Fig. WFWL-165 (Lever type) - DN65-DN150

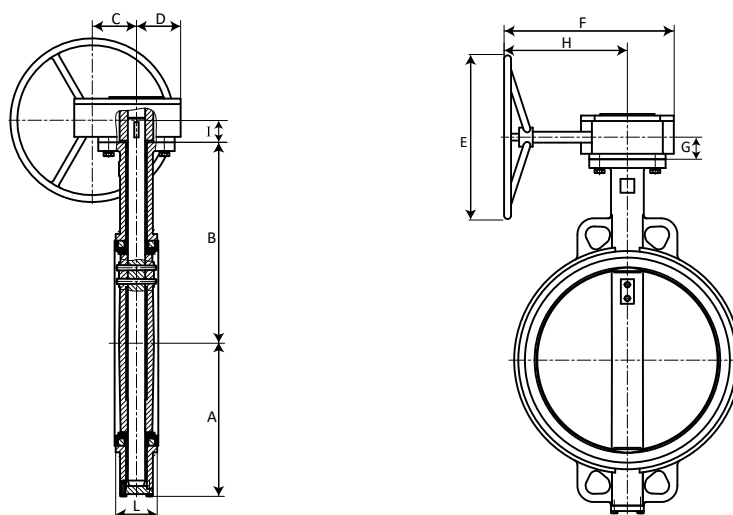


Fig. WFWG-165 (Gear type) - DN65-DN450

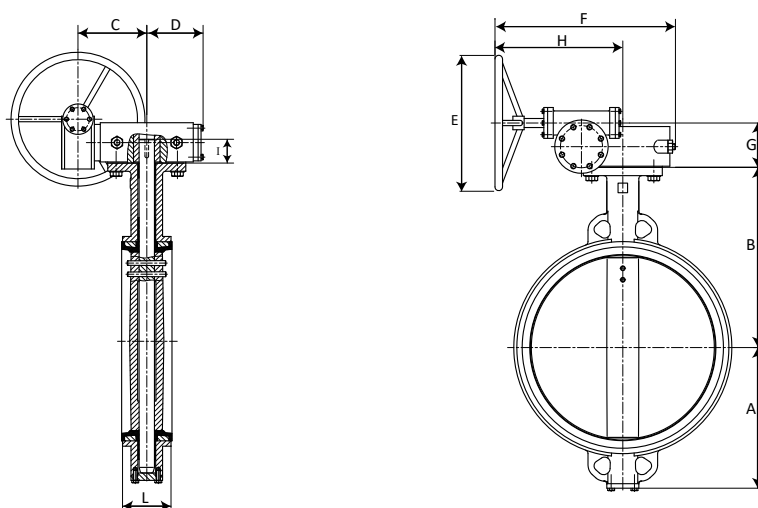


Fig. WFWG-165 (Gear type) - DN500-DN600

Butterfly Valve: Fully Lugged Wafer Pattern PN16

WESO

**Fig. WFL-165
& WFLG-165**



Features & Benefits

- Wafer-type fully-lugged body of ductile iron
- Design with a long neck for warmth

Specifications

- BS/EN 593 compliant
- Conformity of the top flange to ISO 5211
- BS/EN 558 basic series 20 face-to-face measurements
- BS/EN 1092-2 PN16 (previously BS 4504) compatible with flange connectors
- Drilling of ANSI flanges is available upon request.
- For sizes up to DN150, a lever operator with a latch-lock is available.
- DN200 and larger are equipped with a fully enclosed gear operator as standard.
- Electric actuators are available
- A lockable gearbox is available.
- Operators with a gearbox and chain wheels are available.

MATERIAL SPECIFICATION

Description	Material
Body	Ductile Iron BS/EN 1563
Shaft	Stainless Steel Type 416
Seat	EPDM
O-Ring	EPDM
Bushing	PTFE
Disc	1. Ductile Iron Nickel Plated 2. Stainless Steel Type 304 3. Stainless Steel Type 316 4. Aluminium Bronze
Taper Pin	Stainless Steel Type 304
Lever	Cast Iron BS/EN 1561
Gear Box	Ductile Iron BS/EN 1563

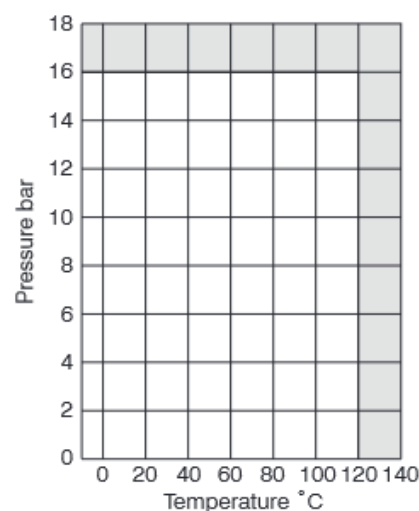


Fig. WFL-165 DN65-DN150 (Lever type)

DN	Inches	A (mm)	B (mm)	C (mm)	E (mm)	L (mm)	P (mm)	N-ØM	Weight (kg)
65	2½	89	174	32	145	45	260	4-M16	3.8
80	3	95	181	32	160	45	260	8-M16	5.8
100	4	114	200	32	180	52	260	8-M16	7.2
125	5	127	213	32	210	54	260	8-M16	9.8
150	6	139	225	32	240	56	260	8-M20	11.8

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

Pressure/Temperature Rating

- 16 Bar from -10°C to 120°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar

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Fig. WFLG-165 DN65-DN 600 (Gear type)

DN	Inches	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)	P (mm)	N-ØM	Weight (kg)
65	2½	89	174	45	53	150	230	38	178	32	45	145	4-M16	9
80	3	95	181	45	53	150	230	38	178	32	45	160	8-M16	12
100	4	114	200	45	53	150	230	38	178	32	52	180	8-M16	13
125	5	127	213	45	53	150	230	38	178	32	54	210	8-M16	15
150	6	139	225	45	53	150	230	38	178	32	56	240	8-M20	16
200	8	177	260	63	76	300	310	41	235	38	60	295	12-M20	27
250	10	203	292	63	76	300	310	41	235	38	66	355	12-M24	37
300	12	242	337	81	81	300	305	42	226	38	77	410	12-M24	47
350	14	277	368	81	81	300	305	42	226	45	77	470	16-M24	59
400	16	308	400	95	125	360	317	48	217	51	102	525	16-M27	93
450	18	342	422	95	125	360	317	48	217	51	114	585	20-M27	119
500	20	374	479	185	160	360	480	115	320	64	130	650	20-M30	169
600	24	459	562	185	160	360	520	120	335	70	152	770	20-M33	256

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

Butterfly Valve – Fully-lugged Wafer Pattern PN16

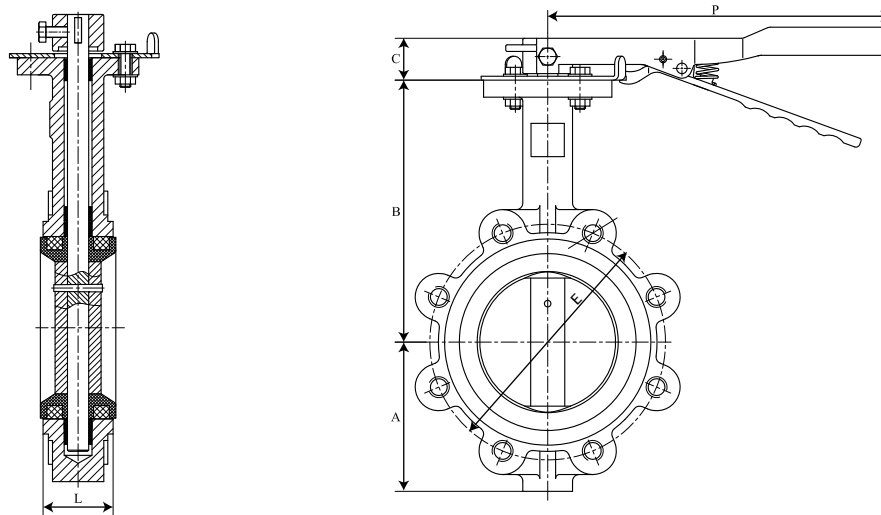


Fig. WFL-165 (Lever type) - DN65-DN150

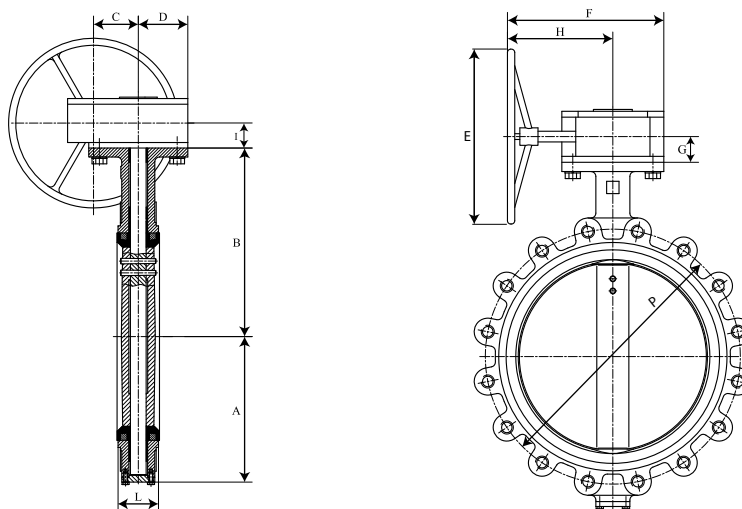


Fig. WFLG-165 (Gear type) - DN65-DN450

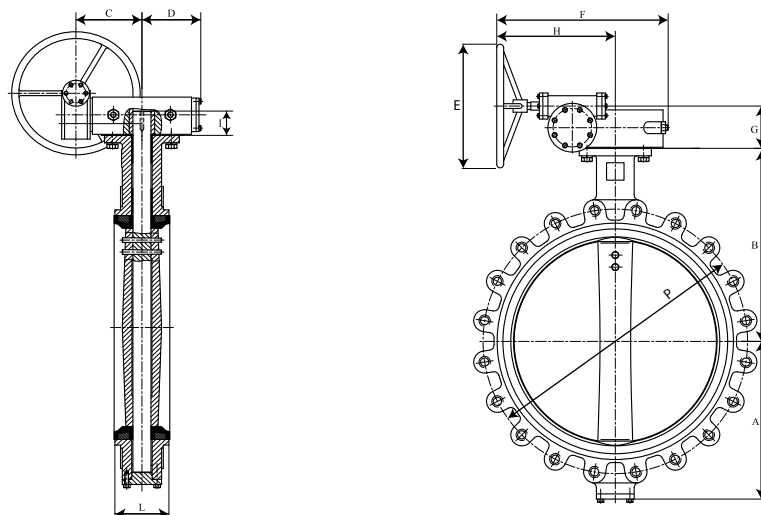


Fig. WFLG-165 (Gear type) - DN500-DN600

Butterfly Valve: Fully Lugged Wafer Pattern PN25

WESO

**Fig.WFLL-255
& WFLG-255**



Features & Benefits

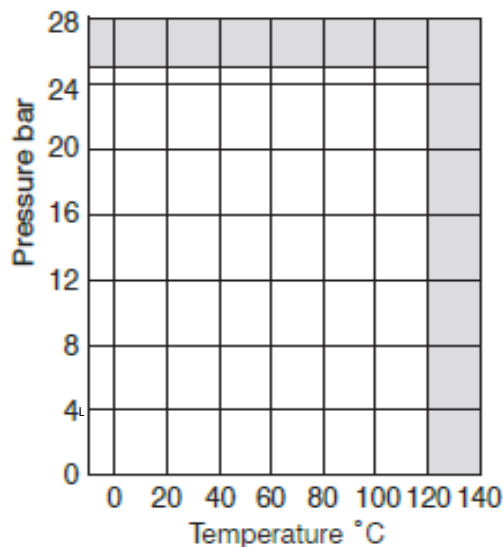
- Ductile iron fully-lugged body
- Long neck design for insulation

Specifications

- BS/EN 593 compliant
- BS/EN 1092-2 PN25 (previously BS 4504) compatible with flange connectors
- Drilling of ANSI flanges is available upon request.
- For sizes up to DN150, a lever operator with a latch-lock is available.
- DN200 and larger are equipped with a fully enclosed gear operator as standard.
- Electric actuators are available
- Operators with a gearbox and chain wheels are available.
- A lockable gearbox is available.

MATERIAL SPECIFICATION

Description	Material
Body	Ductile Iron BS/EN 1563
Shaft (DN65-350)	Stainless Steel Type 410
Shaft (DN400-600)	Stainless Steel Type 431
Seat	EPDM
O-Ring	EPDM
Bushing	PAP
Disc	1. Ductile Iron Nickel Plated 2. Stainless Steel Type 304 3. Stainless Steel Type 316 4. Aluminium Bronze
Lever	Malleable Iron
Gear Box	Cast Iron BS EN 1561



DIMENSIONS & WEIGHT

Fig.WFLG-255 DN65-DN150 (G ear type)

DN	Inches	L (mm)	H (mm)	D (mm)	D (mm)	PSD (mm)	N-ØM	Weight (kg)
65	2½	156	234	46	50	145	8-M16	9
80	3	162	257	46	50	160	8-M16	10
100	4	177	285	52	56	190	8-M20	14
125	5	190	313	56	60	220	8-M24	17
150	6	205	343	56	60	250	8-M24	18
200	8	236	404	60	64	310	12-M24	33
250	10	267	474	68	72	370	12-M27	42
300	12	308	551	78	82	430	16-M27	61
350	14	368	640	78	82	490	16-M30	70
400	16	400	742	102	107	550	16-M33	144
450	18	422	794	114	119	600	20-M33	178
500	20	480	882	127	133	660	20-M33	258
600	24	562	1029	154	160	770	20-M36	354

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

Fig.WFLL-255 D N65-DN150 (Lever type)

DN	Inches	L (mm)	H (mm)	D (mm)	D (mm)	E (mm)	PSD (mm)	N-ØM	Weight (kg)
65	2½	156	234	46	50	266	145	8-M16	5.9
80	3	162	257	46	50	266	160	8-M16	6.4
100	4	177	285	52	56	266	190	8-M20	9.6
125	5	190	313	56	60	266	220	8-M24	12.9
150	6	205	343	56	60	328	250	8-M24	15.2

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

Pressure/Temperature Rating

- 25 Bar from -10°C to 120°C

Test Pressure

- Shell: 37.5 bar ■ Seat: 27.5 bar

Butterfly Valve: Fully Lugged Wafer Pattern PN25

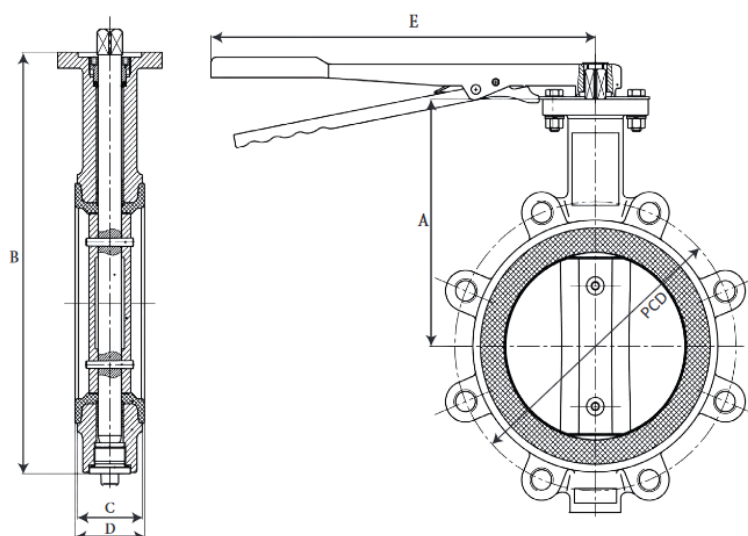


Fig. WFL-255 (Lever type) - DN65-DN150

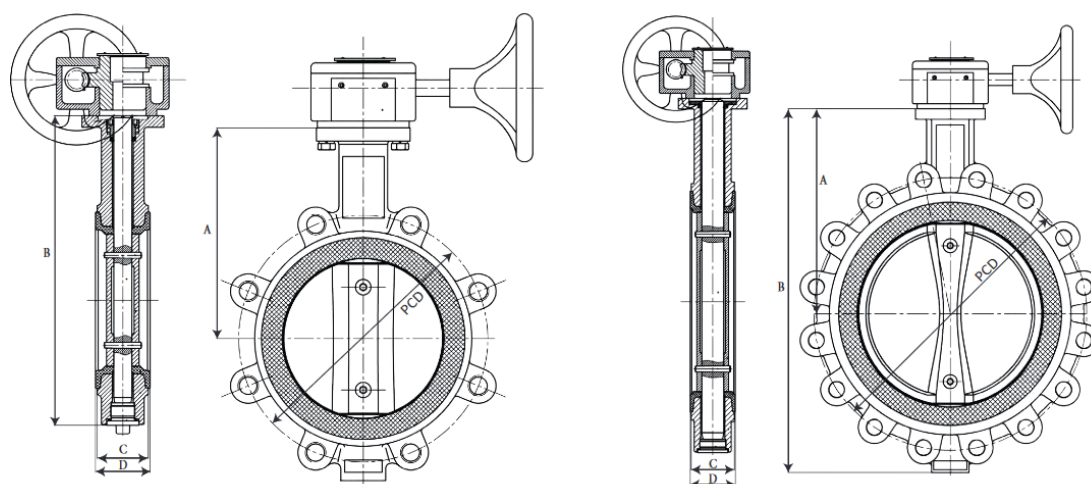


Fig. WFLG-255 (Gear type) - DN65-DN300

Fig. WFLG-255 (Gear type) - DN350

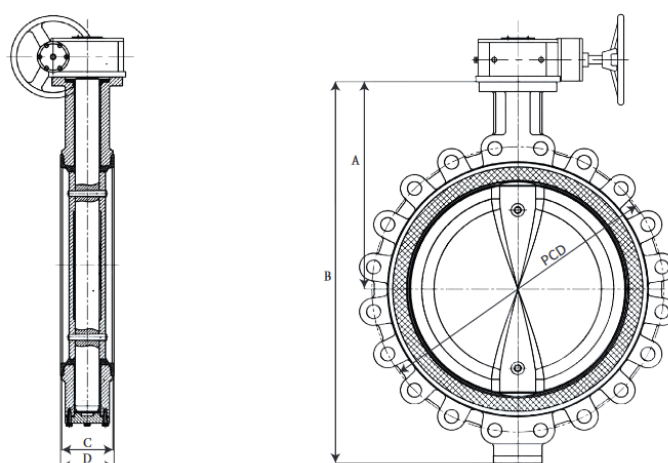


Fig. WFLG-255 (Gear type) - DN400-DN600

Butterfly Valve: Double Flanged PN16

WESO

Fig. WFFG-165



Features & Benefits

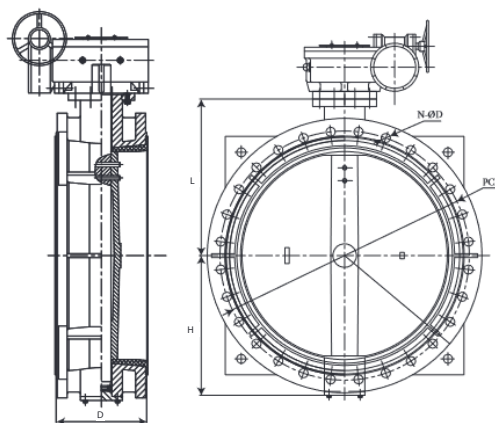
- Ductile iron double-flanged body
- EPDM liner

Specifications

- Designed to BS/EN 593
- Top flange conforms to ISO 5211
- Face-to-face dimensions to BS EN 558-1 primary series 13
- Flanged to BS/EN 1092-2 PN16 formerly BS 4504
- ANSI flange drilling available on request
- Fully enclosed gear operator
- Available with electric actuators
- Available with gearbox + chain-wheel operators

MATERIAL SPECIFICATION

Description	Material
Body	Ductile Iron BS/EN 1563
Shaft	Stainless Steel Type 431
Seat	EPDM
Bushing	Bronze
Bearing	Steel
O-Ring	NBR
Disc	1. Ductile Iron Epoxy Coated 2. Stainless Steel Type 304 3. Stainless Steel Type 316 4. Aluminium Bronze
Disc Pin	Stainless Steel Type 316
Gear Box	Ductile Iron BS/EN 1563



DIMENSIONS & WEIGHT

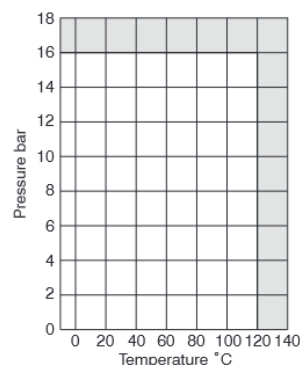
DN	Inches	L (mm)	H (mm)	D (mm)	PCD	N-ØD
700	28	560	478	292	840	24-37
800	32	620	530	318	950	24-41
900	36	692	602	330	1050	28-41
1000	40	735	656	410	1170	28-44

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

Pressure/Temperature Rating Test Pressure

- 16 Bar from -10°C to 120°C
- Shell: 24 bar
- Seat: 17.6 bar

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GATE VALVES

Fig. WGT-162-W



Features & Benefits

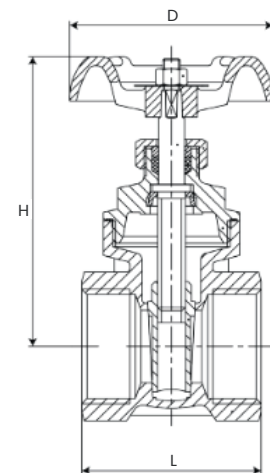
- Brass body that resists dezincification
- A non-rising stem and an inside screw pattern

Specifications

- Designed to BS/EN 12288:2010 Series B formerly BS 5154
- Bonnet with threads
- Wedge made of a single piece
- Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS 21
- On request, NPT threading is available.

MATERIAL SPECIFICATION

Description	Material
Body	DZR Brass CW602N
Bonnet	DZR Brass CW602N
Stem	DZR Brass CW602N
Packing Nut	Brass CW614N
Packing	PTFE
Stem Bush	DZR Brass CW602N
Disc	DZR Brass CW602N
Handwheel	Cast Iron
Handwheel Nut	Stainless Steel



DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	D (mm)	Weight (kg)
15	½	45	70	53	0.24
20	¾	48	77	53	0.32
25	1	54	85	53	0.41
32	1¼	59	103	59	0.60
40	1½	61	117	71	0.81
50	2	70	138	78	1.25

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

Pressure/Temperature Rating

- 16 Bar from -10°C to 100°C
- 7 Bar at 170°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar

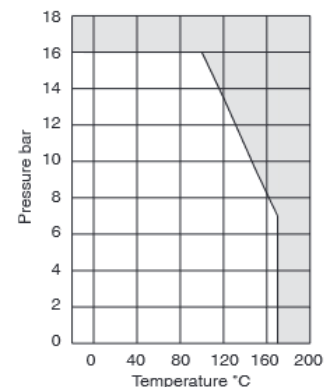


Fig. WGTSLs-203



Features & Benefits

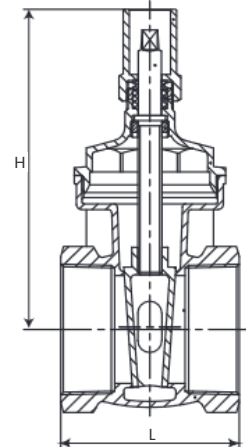
- High quality bronze body
- Inside screw pattern with non-rising stem
- Compact design

Specifications

- Designed to BS/EN 12288:2010 Series B formerly BS 5154
- Inside screw pattern with non-rising stem
- Threaded bonnet
- One-piece wedge
- Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS 21
- NPT threading available on request

MATERIAL SPECIFICATION

Description	Material
Body	Bronze CC491K
Bonnet	Bronze CC491K
Stem	DZR Brass CW602N
Clamping Ring	Brass CW617N
Packing	PTFE
Stem Bush	DZR Brass CW602N
Disc	Bronze CC491K
Lockshield	Brass CW617N



DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	Weight (kg)
15	½	43	77	0.25
20	¾	49	87	0.35
25	1	54	103	0.52
32	1¼	62	116	0.75
40	1½	65	134	1.11
50	2	75	159	1.61

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

Pressure/Temperature Rating

- 20 Bar from -10°C to 100°C
- 9 Bar at 180°C

Test Pressure

- Shell: 30 bar
- Seat: 22 bar

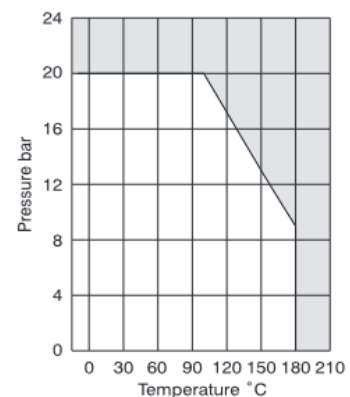


Fig. WGTS-203-W



Features & Benefits

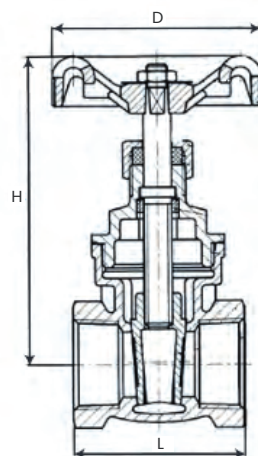
- High quality bronze body
- Inside screw pattern with non-rising stem
- Compact design
- WRAS approved for use with potable water

Specifications

- Designed to BS/EN 12288:2010 Series B formerly BS 5154
- WRAS approved product
- Inside screw pattern with non-rising stem
- Threaded bonnet
- One-piece wedge
- Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS 21
- NPT threading available on request

MATERIAL SPECIFICATION

Description	Material
Body	Bronze CC491K
Bonnet	Bronze CC491K
Stem	DZR Brass CW602N
Packing Nut	Brass CW617N
Packing	PTFE
Stem Bush	DZR Brass CW602N
Disc	Bronze CC491K
Handwheel	Aluminium
Handwheel Nut	Brass CW614N



DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	D (mm)	Weight (kg)
15	½	43	78	52	0.26
20	¾	49	92	60	0.36
25	1	54	103	60	0.52
32	1¼	62	116	70	0.77
40	1½	65	133	78	1.07
50	2	75	156	92	1.62

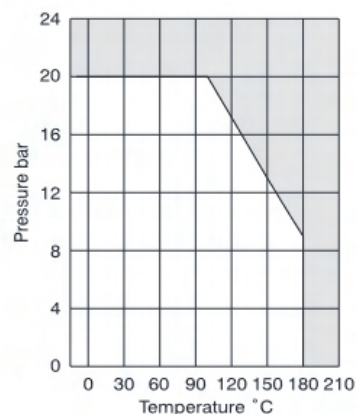
All dimensions are nominal (indicative). Actual dimensions may vary.

Pressure/Temperature Rating

- 20 Bar from -10°C to 100°C
- 9 Bar at 180°C

Test Pressure

- Shell: 30 bar
- Seat: 22 bar



Gate valve: Rising stem PN20

Fig. WGTRS-201



Features & Benefits

- High-quality bronze body
- Inside screw pattern with rising stem

Specifications

- BS/EN 12288:2010 Series B design BS 5154 was the previous designation.
- With a rising stem inside screw pattern.
- Bonnet with threads
- Wedge made of a single piece
- BS/EN 10226-2 taper threaded (BS21/ISO-7)
- NPT threading available on request

MATERIAL SPECIFICATION

Description	Material
Body	Bronze CC491K
Bonnet	Bronze CC491K
Stem	DZR Brass CW602N
Packing Nut	Brass CW614N
Packing	PTFE
Stem Bush	DZR Brass CW602N
Disc	Bronze CC491K
Handwheel	Aluminium
Handwheel Nut	Brass CW614N

DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	D (mm)	Weight (kg)
15	½	43	112	55	0.37
20	¾	49	125	63	0.56
25	1	54	143	70	0.84
32	1¼	62	170	70	1.07
40	1½	65	198	80	1.43
50	2	75	233	90	1.97

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

Pressure/Temperature Rating

- 20 Bar from -10°C to 100°C
- 9 Bar at 180°C

Test Pressure

- Shell: 30 bar
- Seat: 22 bar

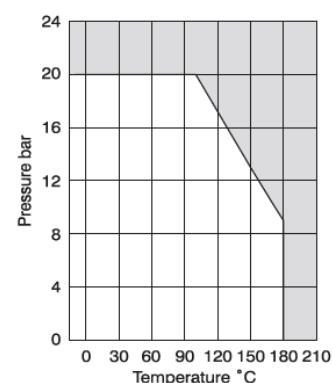
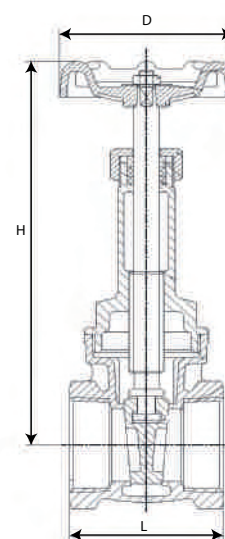


Fig. WGF-164



Features & Benefits

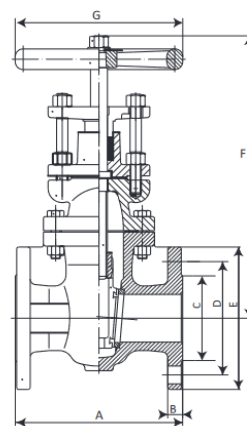
- Cast iron body with flanged ends
- Inside screw pattern with non-rising stem
- Bronze trim

Specifications

- Designed to BS/EN 1171 formerly BS 5150
- Inside screw
- Non-rising stem
- Bolted bonnet
- Single piece wedge
- Bronze trim
- Face to face dimensions to BS EN 558-1
- Flanged to BS/EN 1092-2 PN16 formerly BS 4504
- ANSI flange drilling available on request

MATERIAL SPECIFICATION

Description	Material
Body	Cast Iron BS EN 1561
Bonnet	Cast Iron BS EN 1561
Disc	Cast Iron BS EN 1561
Body Seat Ring	Bronze CC491K
Disc Seat Ring	Bronze CC491K
Stem	Stainless steel type 420
Stem Nut	Brass CW614N
Gasket	Graphite
Packing	Graphite
Handwheel	Cast Iron BS EN 1561



DIMENSIONS & WEIGHT

DN	Inches	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	N-ØD	Weight (kg)
65	2½	190	20	118	145	185	332	178	4-19	22
80	3	203	22	132	160	200	335	200	8-19	27
100	4	229	24	156	180	220	423	254	8-19	47
125	5	254	26	184	210	250	485	300	8-19	68
150	6	267	26	211	240	285	545	300	8-23	87
200	8	292	30	266	295	340	644	348	12-23	118
250	10	330	32	319	355	405	769	400	12-28	197
300	12	356	32	370	410	460	860	457	12-28	275
350	14	381	36	429	470	520	987	560	16-28	370
400	16	406	38	480	525	580	1044	560	16-31	463

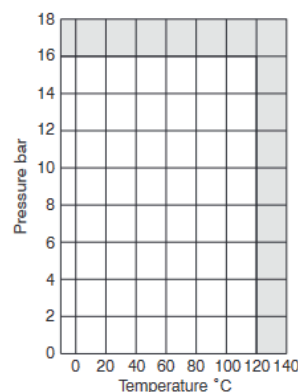
All dimensions are nominal (indicative). Actual dimensions may vary.

Pressure/Temperature Rating

- 16 Bar from -10°C to 120°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar



Gate Valve: Rising Stem PN16

WESO

Fig. WGFRS-164



Features & Benefits

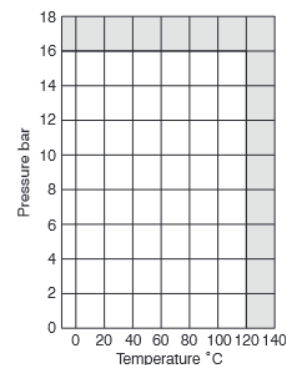
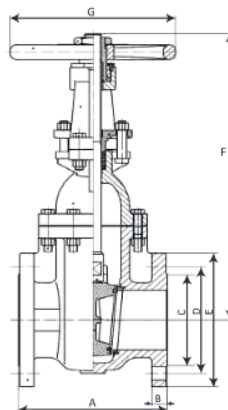
- Cast iron body with flanged ends
- Outside screw pattern with rising stem
- Bronze trim

Specifications

- Designed to BS/EN 1171 formerly BS 5150
- Outside screw
- Rising stem
- Bolted bonnet
- Single piece wedge
- Bronze trim
- Face to face dimensions to BS/EN 558-1 basic series 3
- Flanged to BS/EN 1092-2 PN16 formerly BS 4504
- ANSI flange drilling available on request

MATERIAL SPECIFICATION

Description	Material
Body	Cast Iron BS/EN 1561
Bonnet	Cast Iron BS/EN 1561
Disc	Cast Iron BS/EN 1561
Body Seat Ring	Bronze CC491K
Disc Seat Ring	Bronze CC491K
Stem	Stainless steel type 420
Gasket	Graphite
Packing	Graphite
Handwheel	Cast Iron BS/EN 1561



DIMENSIONS & WEIGHT

DN	Inches	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	N-ØD	Weight (kg)
65	2½	190	20	118	145	185	347	178	4-19	19
80	3	203	22	132	160	200	384	200	8-19	24
100	4	229	24	156	180	220	490	254	8-19	39
125	5	254	26	184	210	250	541	300	8-19	55
150	6	267	26	211	240	285	656	300	8-23	73
200	8	292	30	266	295	340	778	348	12-23	105
250	10	330	32	319	355	405	933	400	12-28	165
300	12	356	32	370	410	460	1102	457	12-28	235

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

Pressure/Temperature Rating

- 16 Bar from -10°C to 120°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar

Fig. WGFRE-165-W



Features & Benefits

- Resilient seated
- Inside screw pattern with non-rising stem

Specifications

- Designed to BS 5163
- Inside screw pattern with non-rising stem
- Bolted bonnet
- Ductile iron with EPDM vulcanized wedge
- Face to face dimensions to BS/EN 558-1 basic series 3
- Flanged to BS/EN 1092-2 PN16 formerly BS 4504
- ANSI flange drilling available on request

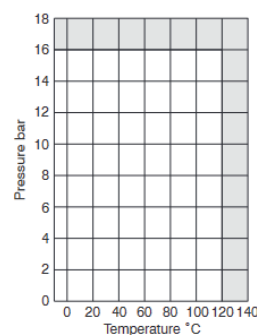
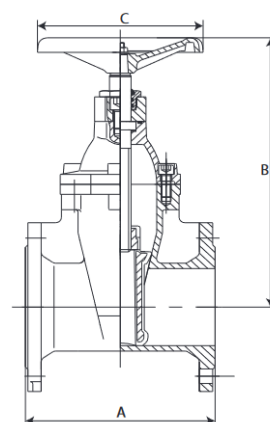
MATERIAL SPECIFICATION

Description	Material
Body	Ductile Iron BS EN 1563
Bonnet	Ductile Iron BS EN 1563
Disc	Ductile Iron BS EN 1563 + EPDM vulcanized
Stem	Stainless Steel Type 420
O-Ring	EPDM
Handwheel	Carbon Steel

DIMENSIONS & WEIGHT

DN	Inches	A (mm)	B (mm)	C (mm)	PCD (mm)	N-ØD	Weight (kg)
65	2½	190	237	200	145	4-19	13
80	3	203	274	200	160	8-19	17
100	4	229	300	200	180	8-19	20
125	5	254	364	250	210	8-19	27
150	6	267	404	250	240	8-23	37
200	8	292	497	320	295	12-23	61
250	10	330	590	370	355	12-28	93
300	12	356	667	370	410	12-28	121
350	14	381	882	450	470	16-28	192
400	16	406	956	450	525	16-31	242
450	18	432	1027	640	585	20-31	362
500	20	457	1106	640	650	20-34	473
600	24	508	1258	640	770	20-37	662

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



Pressure/Temperature Rating

- 16 Bar from -10°C to 120°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar

Fig. WGFRE-255-W



Features & Benefits

- Resilient seated
- Inside screw pattern with non-rising stem

Specifications

- Designed to BS 5163
- Inside screw pattern with non-rising stem
- Bolted bonnet
- Ductile iron with EPDM vulcanized wedge
- Face to face dimensions to BS/EN 558-1 basic series 3
- Flanged to BS/EN 1092-2 PN25 formerly BS 4504
- ANSI flange drilling available on request

MATERIAL SPECIFICATION

Description	Material
Body	Ductile Iron BS EN 1563
Bonnet	Ductile Iron BS EN 1563
Disc	Ductile Iron BS EN 1563 + EPDM vulcanized
Stem	Stainless Steel Type 420
O-Ring	EPDM
Handwheel	Carbon Steel

DIMENSIONS & WEIGHT

DN	Inches	A (mm)	B (mm)	C (mm)	PCD (mm)	N-ØD	Weight (kg)
65	2½	190	296	160	145	8-19	13
80	3	203	349	200	160	8-19	17
100	4	229	396	200	190	8-23	24
125	5	254	477	250	220	8-28	33
150	6	267	548	250	250	8-28	41
200	8	292	694	280	310	12-28	64
250	10	330	840	370	370	12-31	94
300	12	356	960	370	430	16-31	127

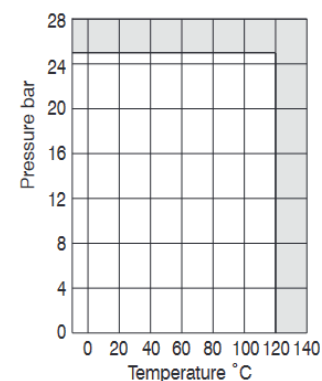
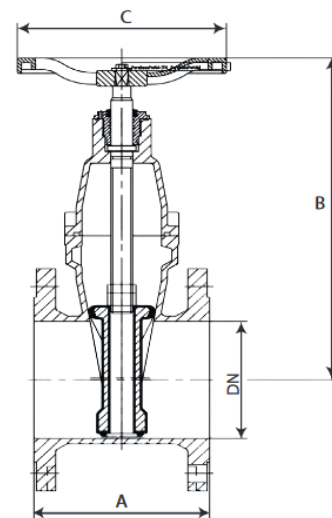
All dimensions are nominal (indicative). Actual dimensions may vary.

Pressure/Temperature Rating

- 25 Bar from -10°C to 120°C

Test Pressure

- Shell: 37.5 bar
- Seat: 27.5 bar



CHECK VALVES

Fig. WNT-203-W



Features & Benefits

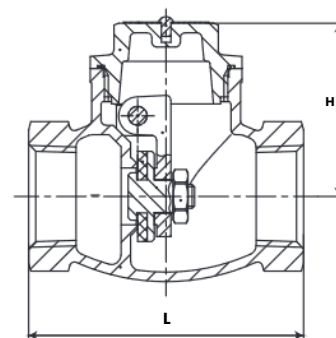
- High quality bronze body
- Horizontal swing pattern

Specifications

- Designed to BS 5154
- WRAS approved product
- Horizontal swing pattern
- Threaded cover
- Can be installed in horizontal or vertical, upward flow piping
- Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS 21
- NPT threading available on request

MATERIAL SPECIFICATION

Description	Material
Body	Bronze CC491K
Cap	Bronze CC491K
Disc	NBR
Disc Holder	Bronze CC491K
Packing	PTFE
Hinge	Bronze CC491K
Hinge Pin	Stainless Steel Type 304
Hinge Nut	Stainless Steel Type 304



DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	Weight (kg)
15	½	58	36.5	0.25
20	¾	66	43	0.39
25	1	76	49	0.61
32	1¼	88	57	0.87
40	1½	96	62.5	1.16
50	2	112	72	1.80

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

Pressure/Temperature Rating

- 20 Bar from -10°C to 100°C

Test Pressure

- Shell: 30 bar
- Seat: 22 bar

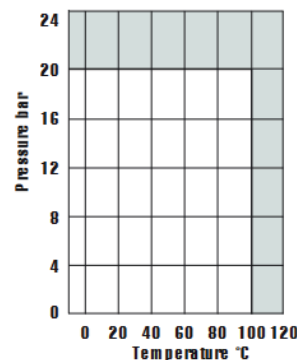


Fig. WNF-164



Features & Benefits

- Horizontal swing pattern
- Bronze trim

Specifications

- Designed to BS/EN 16767 formerly BS/EN 12334
- Horizontal swing pattern
- Bolted bonnet
- Can be installed in horizontal or vertical, upward flow piping
- Face-to-face dimensions to BS/EN 558-1 primary series 10 (DN65-400)
- Flanged to BS/EN 1092-2 PN16 formerly BS 4504
- ANSI flange drilling available on request

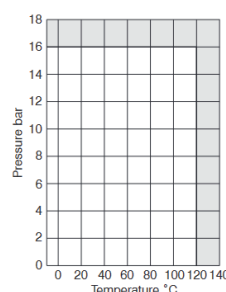
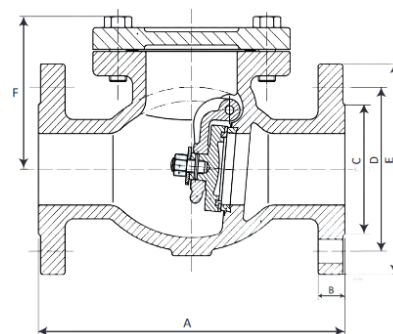
MATERIAL SPECIFICATION

Description	Material
Body	Cast Iron BS/EN 1561
Bonnet	Cast Iron BS/EN 1561
Disc	Cast Iron BS/EN 1561
Body Seat Ring	Bronze CC491K
Disc Seat Ring	Bronze CC491K
Hinge	Ductile Iron BS/EN 1563
Hinge Pin	Stainless Steel Type 304
Hanger Shaft	Ductile Iron BS/EN 1563
Gasket	Graphite

DIMENSIONS & WEIGHT

DN	Inches	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	N-ØD	Weight (kg)
65	2½	216	20	118	145	185	132	4-19	14
80	3	241	22	132	160	200	141	8-19	20
100	4	292	24	156	180	220	162	8-19	32
125	5	330	26	184	210	250	192	8-19	47
150	6	356	26	211	240	285	211	8-23	64
200	8	495	30	266	295	340	270	12-23	106
250	10	622	32	319	355	405	316	12-28	185
300	12	699	32	370	410	460	357	12-28	239
350	14	787	36	429	470	520	560	16-28	485
400	16	914	38	480	525	580	589	16-31	585
450	18	914	40	548	585	640	645	20-31	691
500	20	1016	42	609	650	715	702	20-34	891
600	24	1219	48	720	770	840	812	20-37	1325

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



Pressure/Temperature Rating

- 16 Bar from -10°C to 120°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar

Check Valve: Swing Type with Lever & Weight PN16

WESO

Fig. WNFLW-164



Features & Benefits

- Horizontal swing pattern with lever & weight
- Bronze trim

Specifications

- Designed to BS/EN 16767 formerly BS/EN 12334
- Horizontal swing pattern with lever & weight
- Bolted bonnet
- Face-to-face dimensions to BS/EN 558-1 primary series 10 (DN65-DN400)
- Flanged to BS/EN 1092-2 PN16 formerly BS 4504
- ANSI flange drilling available on request
- Can be installed in horizontal or vertical, upward flow piping

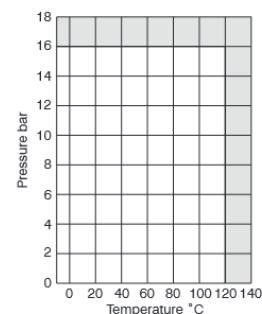
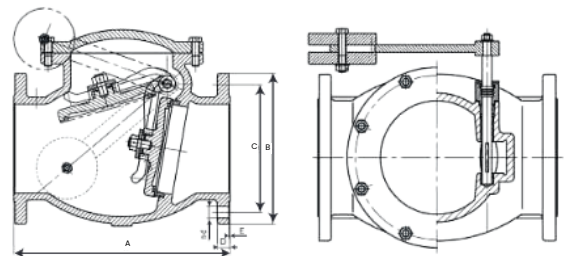
MATERIAL SPECIFICATION

Description	Material
Body	Cast Iron BS/EN 1561
Bonnet	Cast Iron BS/EN 1561
Disc	Cast Iron BS/EN 1561
Body Seat Ring	Bronze CC491K
Disc Seat Ring	Bronze CC491K
Hanger	Ductile Iron BS/EN 1563
Balance Weight	Ductile Iron BS/EN 1563
Connecting Lever	Ductile Iron BS/EN 1563
Gasket	Graphite

DIMENSIONS & WEIGHT

DN	Inches	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	N-ØD	Weight (kg)
65	2½	216	185	145	20	3	4-19	16
80	3	241	200	160	22	3	8-19	22
100	4	292	220	180	24	3	8-19	35
125	5	330	250	210	26	3	8-19	54
150	6	356	285	240	26	3	8-23	70
200	8	495	340	295	30	3	12-23	120
250	10	622	405	355	32	3	12-28	198
300	12	699	460	410	32	4	12-28	257
350	14	787	520	470	36	4	16-28	456
400	16	914	580	525	38	4	16-31	586
450	18	914	640	585	40	4	20-31	691
500	20	1016	715	650	42	4	20-34	900
600	24	1219	840	770	48	5	20-37	1325

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



Pressure/Temperature Rating

- 16 Bar from -10°C to 120°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar

Check Valve - Swing Type Air Cushioned PN16

WESO

Fig. WNFAC-165



Features & Benefits

- Horizontal swing pattern with air cushion & weight
- Bronze trim

Specifications

- Designed to BS/EN 16767 formerly BS/EN 12334
- Horizontal swing pattern with air cushion & weight
- Face to face dimensions to BS/EN 558-1 primary series 10
- Flanged to BS/EN 1092-2 PN16 formerly BS 4504
- ANSI flange drilling available on request
- Can be installed in horizontal or vertical, upward flow piping

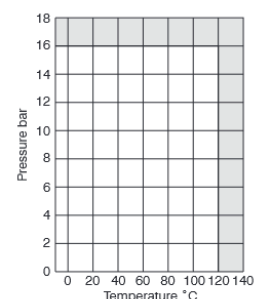
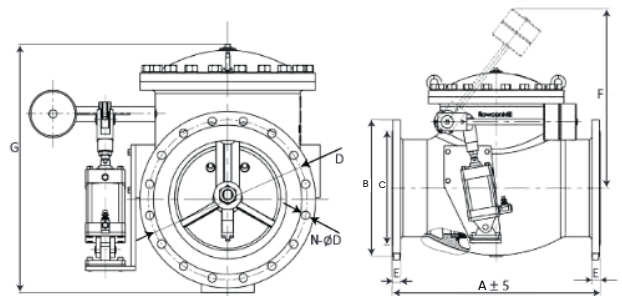
MATERIAL SPECIFICATION

Description	Material
Body	Ductile Iron BS/EN 1563
Bonnet	Ductile Iron BS/EN 1563
Disc	Ductile Iron BS/EN 1563
Body Seat Ring	Bronze CC491K
Disc Seat Ring	Bronze CC491K
Shaft	Stainless Steel Type 304
Cylinder	Aluminium Alloy
Regulating Valve	Aluminium Alloy
Gasket	Graphite

DIMENSIONS & WEIGHT

DN	Inches	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	N-ØD	Weight (kg)
65	2½	216	185	118	145	19	230	262	4-19	23
80	3	241	200	132	160	19	234	277	8-19	25
100	4	292	220	156	180	19	319	324	8-19	40
125	5	330	250	184	210	19	330	362	8-19	52
150	6	356	285	211	240	19	350	400	8-23	60
200	8	495	340	266	295	20	474	477	12-23	105
250	10	622	405	319	355	22	551	583	12-28	159
300	12	698	460	370	410	24.5	657	680	12-28	236
350	14	787	520	429	470	26.5	689	718	16-28	301
400	16	914	580	480	525	36.6	785	838	16-31	415
450	18	1016	640	548	585	39.6	837	903	20-31	534
500	20	1016	715	609	650	42.9	885	1005	20-34	620
600	24	1219	840	720	770	47.8	1147	1206	20-37	1068

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



Pressure/Temperature Rating

- 16 Bar from -10°C to 120°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar

Check Valve - Wafer Type Spring Loaded PN16

WESO

Fig. WNW-164



Features & Benefits

- Double door wafer pattern with spring-assisted closure

Specifications

- EPDM rubber seat and spring-assisted closure
- Can be installed in horizontal or vertical, upward flow piping
- Face-to-face dimensions to BS/EN 558-1 primary series 16
- Suitable for BS/EN 1092 PN16 flanges
- Other flange standards available upon request

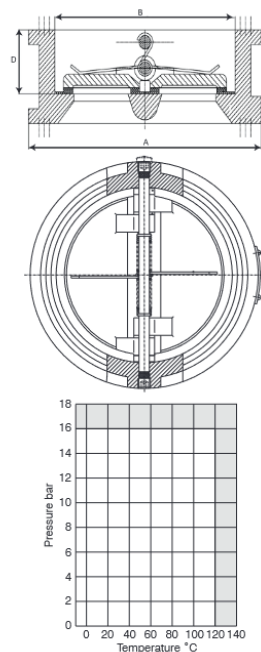
MATERIAL SPECIFICATION

Description	Material
Body	Cast Iron BS/EN 1561
Seat	EPDM
Disc	1. Ductile Iron Nickel Plated 2. Stainless Steel Type 304 3. Stainless Steel Type 316 4. Aluminium Bronze
Stem	Stainless Steel Type 304
Spring	Stainless Steel Type 304
Gaskets	PTFE
Sealing Ring	NBR

DIMENSIONS & WEIGHT

DN	Inches	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
65	2½	127	80	46	34	2.3
80	3	142	94	64	44	3.7
100	4	162	117	64	48	4.2
125	5	192	145	70	50	6.3
150	6	218	170	76	52	9.2
200	8	273	224	89	58	15
250	10	328	265	114	78	26
300	12	380	310	114	74	41
350	14	439	360	127	79	55
400	16	490	410	140	88	90
150	18	554	450	152	98	107
500	20	616	505	152	100	114
600	24	724	624	178	124	166

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



Pressure/Temperature Rating

- 16 Bar from -10°C to 120°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar

Check Valve: Wafer-Type Spring-Loaded PN25

WESO

Fig. WNW-255



Features & Benefits

- Double door wafer pattern with spring-assisted closure

Specifications

- EPDM rubber seat and spring-assisted closure
- Can be installed in horizontal or vertical, upward flow piping
- Face-to-face dimensions to BS/EN 558-1 primary series 16
- Suitable for BS/EN 1092 PN25 flanges
- Other flange standards available upon request

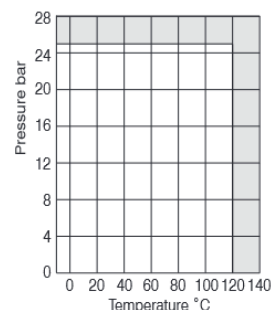
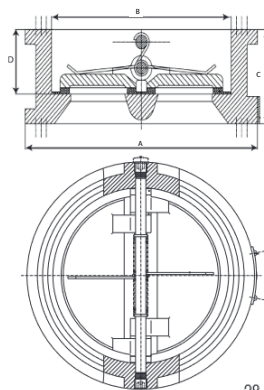
MATERIAL SPECIFICATION

Description	Material
Body	Ductile Iron BS/EN 1563
Seat	EPDM
Disc	1. Ductile Iron Nickel Plated 2. Stainless Steel Type 304 3. Stainless Steel Type 316 4. Aluminium Bronze
Stem	Stainless Steel Type 304
Spring	Stainless Steel Type 304
Gaskets	PTFE
Sealing Ring	NBR

DIMENSIONS & WEIGHT

DN	Inches	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
65	2½	127	80	46	34	2.5
80	3	142	94	64	44	4.1
100	4	162	117	64	48	4.6
125	5	192	145	70	50	6.9
150	6	222	170	76	52	10
200	8	282	224	89	58	16
250	10	339	265	114	78	28
300	12	399	310	114	74	43
350	14	456	360	127	79	58
400	16	513	410	140	88	95
450	18	563	450	152	98	112
500	20	623	505	152	100	120
600	24	724	624	178	124	175

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



Pressure/Temperature Rating

- 25 Bar from -10°C to 120°C

Test Pressure

- Shell: 37.5 bar
- Seat: 27.5 bar

OTHER VALVES

Fig. WVT-161



Features & Benefits

- Automatically vents air trapped in the system
- Solid brass construction with long life polypropylene float
- With detachable check valve

Specifications

- Brass body and cover
- Polypropylene float
- NBR seals
- Threaded cap
- Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS 21
- NPT threading available on request

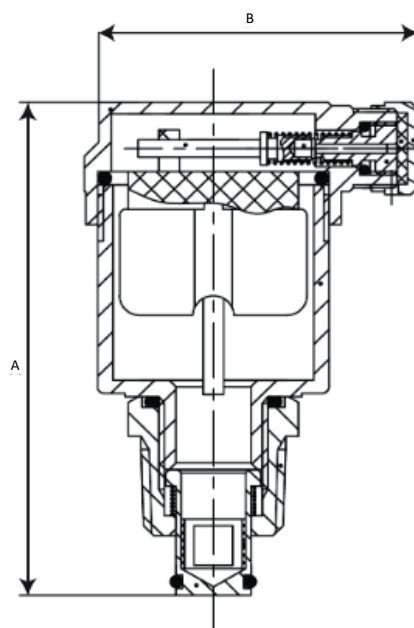
MATERIAL SPECIFICATION

Description	Material
Body	Brass CW617N
Cover	Brass CW617N
Air Cap	Brass CW617N
Float	Polypropylene
Check valve	Brass CW617N
O-Rings	NBR
Gaskets	NBR
Springs	Stainless Steel Type 304

DIMENSIONS & WEIGHT

DN	Inches	A (mm)	B (mm)	Weight (kg)
15	½	76	50	0.18
20	¾	76	50	0.20
25	1	76	50	0.25

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



Pressure/Temperature Rating

- 16 Bar from -10°C to 85°C

Test Pressure

- Shell: 24 bar

Fig. WDCT-162



Features & Benefits

- Enables system draining without removing pipework
- Dezincification-resistant body

Specifications

- Designed to BS 2879
- Garden hose end on the outlet
- Plug with square head
- Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS 21
NPT threading available on request

MATERIAL SPECIFICATION

Description	Material
Body	DZR Brass CW602N
Disc	DZR Brass CW602N
Bonnet	DZR Brass CW602N
Stem	DZR Brass CW602N
O-Rings	NBR
Gasket	NBR

DIMENSIONS & WEIGHT

DN	Inches	A (mm)	B (mm)	Weight (kg)
15	½	62	38	0.12
20	¾	69.5	44	0.28
25	1	99	62	0.55

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

Pressure/Temperature Rating

- 16 Bar from -10°C to 100°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar

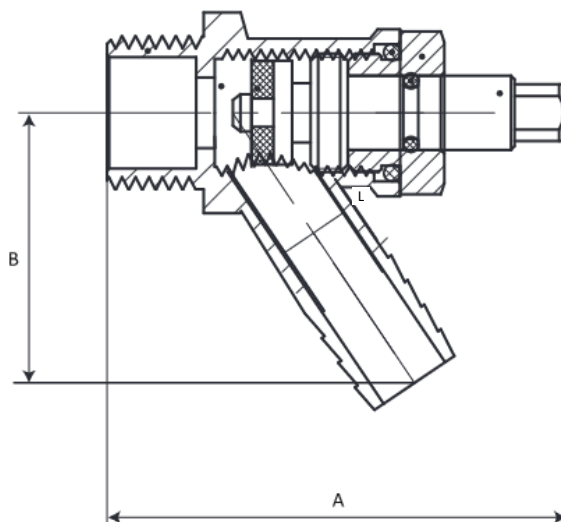


Fig. WBTT-161



Features & Benefits

- Quarter-turn ball type
- Lever operated
- Sizes ½" & ¾"

Specifications

- Brass body equipped with hose union on the outlet
- Quarter-turn ball type with lever operator
- Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS 21
- NPT threading available on request
- Available in chrome finish
- Bib tap ½" available with vacuum breaker

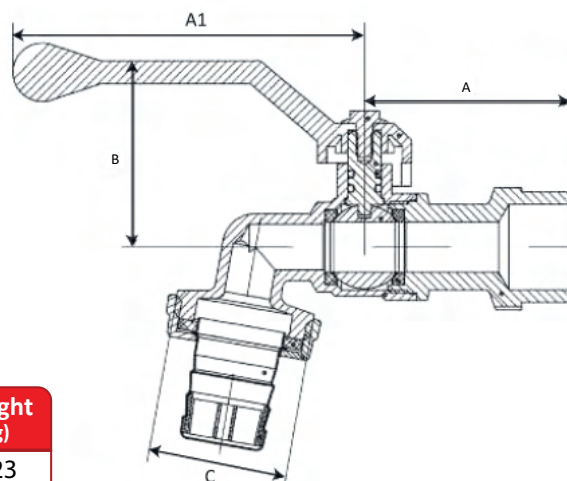
MATERIAL SPECIFICATION

Description	Material
Body	Brass CW614N
Bonnet	Brass CW614N
Ball	Brass CW614N
Seat	PTFE
Stem	Brass CW614N
O-Ring & Gaskets	NBR
Hose Connector	Brass CW614N
Handle Lever	Aluminium

DIMENSIONS & WEIGHT

DN	Inches	A (mm)	A1 (mm)	B (mm)	C (mm)	Weight (kg)
15	½	50	84	44.5	20	0.23
20	¾	50	84	44.5	25	0.31

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



Pressure/Temperature Rating

- 16 Bar from -10°C to 100°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar

Angle Valve: Chrome Plated PN16

WESO

Fig. WAGT-161



Features & Benefits

- 16 Bar from -10°C to 100°C

Specifications

- Chrome plated brass body
- Size 1/2"
- Male threaded 1/2" BSPP

MATERIAL SPECIFICATION

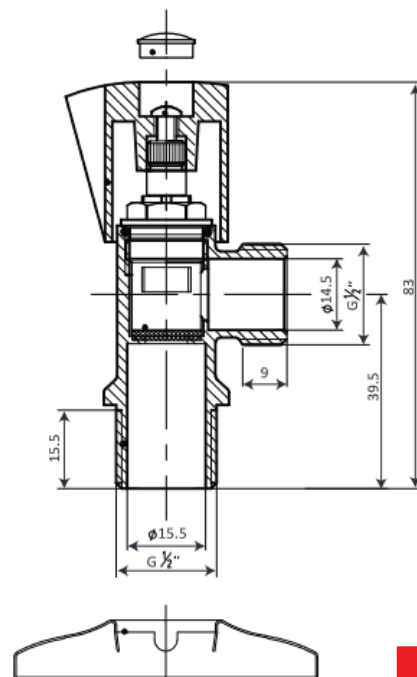
Description	Material
Body	Chrome Plated Brass
Seal	Brass
Handle	Chrome Plated Zinc Alloy
Indices	ABS (Red/Blue)
Circlip	Steel

Pressure/Temperature Rating

- 16 Bar from -10°C to 100°C

Test Pressure

- Shell: 24 bar
- Seat: 17.6 bar



Foot Valve with Strainer PN10

WESO

Fig. WFTT-101



Features & Benefits

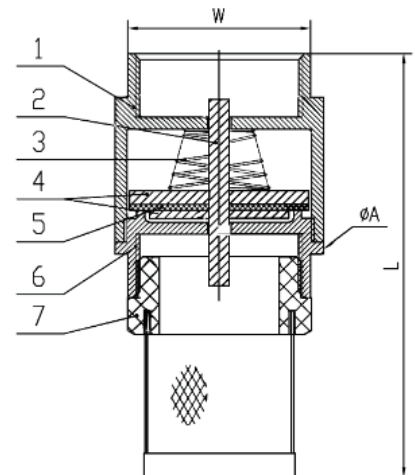
- Brass body with a stainless steel filter
- Suitable for horizontal and vertical position

Specifications

- Vertical lift inline type
- Brass disc with NBR gasket
- Stainless steel filter
- Threaded end (BS/EN 10226-2 / ISO 7)

MATERIAL SPECIFICATION

Description	Material
1. Body	Brass CW614N
2. Stem	Brass CW614N
3. Spring	Stainless Steel Type 304
4. Disc	Brass CW614N
5. Gasket	NBR
6. Bonnet	Brass CW614N
7. Screen	Stainless Steel Type 304



DIMENSIONS & WEIGHT

DN	Inches	A (mm)	L (mm)	W (mm)	Weight (kg)
15	½	33	78	25	0.14
20	¾	42	94	31	0.24
25	1	46	102	38	0.31
32	1¼	59	112	47	0.49
40	1½	66	124	53	0.66
50	2	80	157	67	1.04
65	2½	95	170	82	1.97
80	3	110	186	95	2.59
100	4	145	208	121	4.07

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

Pressure/Temperature Rating

- 10 Bar from -10°C to 100°C

Test Pressure

- Shell: 15 Bar
- Seat: 11 Bar

Fig. WFLT-101

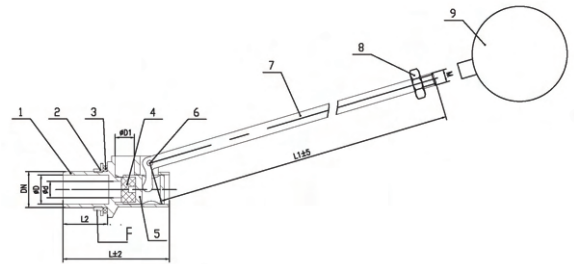


Features & Benefits

- Equilibrium pattern
- Smoothly controlled closure ensuring fast, quiet shut-off
- Threaded inlet

MATERIAL SPECIFICATION

#	Description	Material
1	Body	Brass CW614N
2	Nut	Brass CW614N
3	Gasket	EPDM
4	Disc	EPDM
5	Valve Core	Brass CW614N
6	Pin	Brass CW614N
7	Hinge	Brass CW614N / SS304
8	Nut	Brass CW614N / SS304
9	Ball	Polypropylene / SS304 / Copper



Pressure/Temperature Rating

- 16 Bar from -10°C to 90°C

DIMENSIONS & WEIGHT

DN	L (mm)	L1 (mm)	L2 (mm)	d (mm)	D (mm)	D1 (mm)	F (mm)	Weight (kg)	PP Ball		SS304 Ball		Copper Ball	
									Size (inch)	Weight (kg)	Size (mm)	Weight (kg)	Size (mm)	Weight (kg)
15	64	M8-210	25	6	16	12	24	0.194	110	0.065	100	0.080	100	0.080
20	66	M8-218	27	6	20.5	12	30	0.220	125	0.095	120	0.115	120	0.120
25	68	M8-250	29	8	26.5	12	36.5	0.290	150	0.150	150	0.190	150	0.220
32	121	M10-350	45	15	34.5	24	45.5	0.806	200	0.370	170	0.300	200	0.400
40	131	M12-390	50	17	40	27	53	1.135	200	0.370	200	0.390	250	0.650
50	131	M12-445	50	17	49.5	27	65	1.431	250	0.570	200	0.390	300	0.960
65	143	M14-515	50	25	66	30	88	2.131	300	1.245	250	0.590	350	2.200
80	152	M14-625	50	35	78	35	100	2.875	300	1.245			350	2.200
100	169	M14-780	50	40	103	45	125	4.115	300	1.245			350	2.200

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

Fig. WPRT-203



Features & Benefits

- High quality bronze body
- Direct acting type
- WRAS approved for use with potable water

Specifications

- Integral stainless steel fine filter
- Provision for connecting pressure gauges
- Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS 21
- NPT threading available on request
- Maximum inlet pressure of 20 bar
- Adjustable outlet pressure:
DN15 to DN25: 1 to 4 bar
DN32 to DN100: 1 to 5 bar

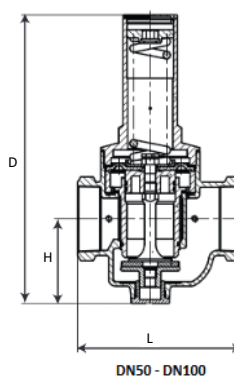
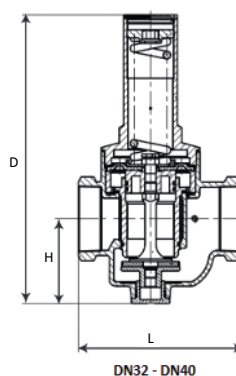
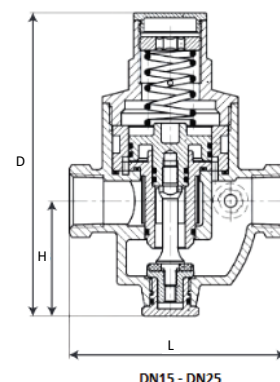
MATERIAL SPECIFICATION

Description	Material
Body	Bronze CC491K
Bonnet	Bronze CC491K
Tap Lid	Brass CW617N
Disc	Brass CW617N
Stem	Brass CW617N
Spring	Steel Alloy
Core	Brass CW617N
Valve Core	Bronze CC491K
Cap	Brass CW617N
Filter	Stainless Steel Type 304
Gaskets	NBR

DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	D (mm)	Weight (kg)
15	½	89	46	121	1.05
20	¾	92	46	121	1.09
25	1	98	46	121	1.14
32	1¼	126	62	192	2.40
40	1½	126	62	192	2.57
50	2	168	85	272	5.90
65	2½	174	85	272	6.49
80	3	225	113	385	15.35
100	4	230	113	385	16.61

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



Pressure/Temperature Rating

- 20 Bar from -10°C to 100°C

Test Pressure

- Shell: 30 bar

ACCESSORIES

Fig. WST-203



Features & Benefits

- High-quality bronze body
- Asbestos-free gasket

Specifications

- Bronze body
- Stainless steel type 304 perforated screen
- Threaded cap
- Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS 21
- NPT threading available on request
- Other screen materials and perforation sizes available on request

MATERIAL SPECIFICATION

Description	Material
Body	Bronze CC491K
Cap	Bronze CC491K
Screen	Stainless Steel Type 304
Gasket	PTFE

DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	Perforation (mm)	Weight (kg)
15	½	58	33	0.7	0.19
20	¾	70	41	0.7	0.30
25	1	88	49	0.7	0.43
32	1¼	96	56	1.4	0.72
40	1½	107	62	1.4	0.98
50	2	126	80	1.4	1.50

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

Pressure/Temperature Rating

- 20 Bar from -10°C to 100°C
- 9 bar at 180°C

Test Pressure

- Shell: 30 bar

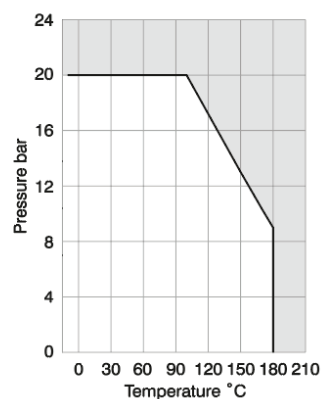
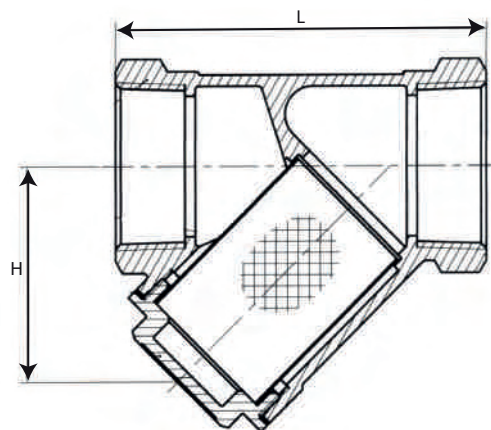


Fig. WSF-165-W



Features & Benefits

- Stainless steel perforated screen
- Cap tapped and plugged for drain
- WRAS approved for use with potable water

Specifications

- Bolted cover
- Cap tapped and plugged for drain
- Face to face dimensions to BS EN 558-1 basic series 1
- Flanged to BS/EN 1092-2 PN16 formerly BS 4504
- ANSI flange drilling available on request
- Can be supplied with 2 test points upon request
- Other screen materials and perforation sizes available on request

MATERIAL SPECIFICATION

Description	Material
Body	Ductile Iron BS EN 1563
Bonnet	Ductile Iron BS EN 1563
Screen	Stainless Steel Type 304
Sealing Ring	EPDM
Drain Plug	Steel

DIMENSIONS & WEIGHT

DN	Inches	L (mm)	H (mm)	D (mm)	PCD (mm)	N-ØD	Perforation Dia (mm)	Weight (kg)
65	2½	290	137	205	145	4-19	1.5	10
80	3	310	152	238	160	8-19	1.5	13
100	4	350	205	318	180	8-19	1.5	16
125	5	400	244	358	210	8-19	1.5	24
150	6	480	269	380	240	8-23	1.5	33
200	8	600	341	508	295	12-23	2.5	56
250	10	730	455	700	355	12-28	2.5	96
300	12	850	476	730	410	12-28	2.5	189
350	14	980	725	1130	470	16-28	2.5	320
400	16	1100	820	1285	525	16-31	3.5	378
450	18	1200	840	1260	585	20-31	3.5	750
500	20	1250	915	1350	650	20-34	3.5	800
600	24	1450	1100	1675	770	20-37	3.5	1240

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

Pressure/Temperature Rating

- 16 Bar from -10°C to 120°C

Test Pressure

- Shell: 24 bar

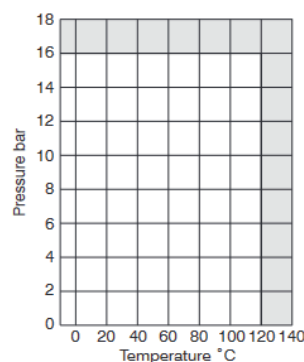
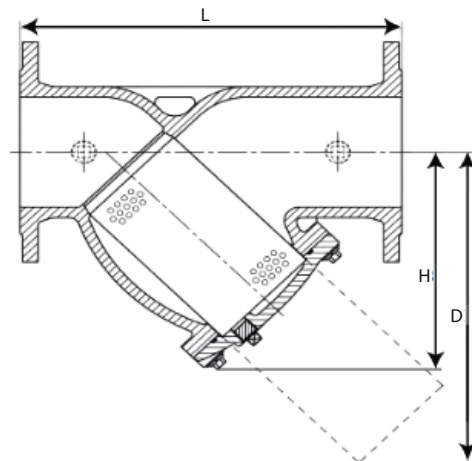


Fig. WVBT-121



Features & Benefits

- Brass body
- No special tools required for servicing

Specifications

- Brass body
- Stainless steel spring and screw
- 3/4" BSPP threaded
- Durable EPDM diaphragm and O-rings for consistent positive seating
- Available with brass or chrome finish

MATERIAL SPECIFICATION

Description	Material
Screw	Stainless Steel Type 304
Body	Brass CW614N
O-Ring	EPDM
Diaphragm	EPDM
Drain Assembly	Nylon
Spring	Stainless Steel Type 304

Pressure/Temperature Rating

- 12 Bar from -10°C to 82°C

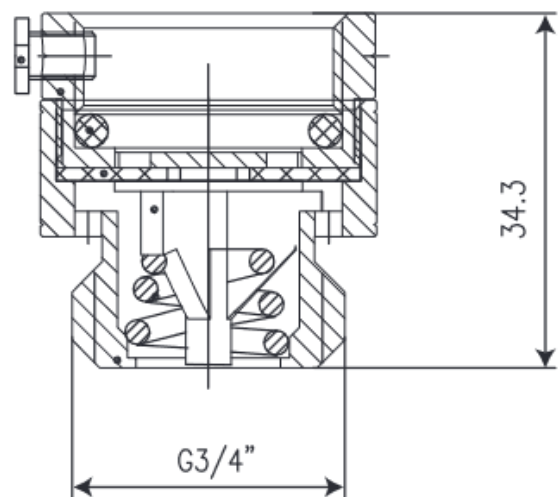


Fig. WHAT-108



Features & Benefits

- Pre- charged hard drawn copper surge pressure absorber with teflon piston, EPDM O-ring seals, and male NPT or BSPT connection.

MATERIAL SPECIFICATION

Description	Material
Body	Copper
Seal Lubricant	Dow-Corning Silicone
Piston	Teflon
O-Ring	EPDM
Threaded adapter	Brass

Pipe Sizing (Select One)		
Suffix	Description	
AA	Conn, Size 1/2" (13), Height	☐
A	Conn, Size 1/2" (13), Height 4-7/8" (124)	☐
B	Conn, Size 3/4" (20), Height 6-7/8" (175)	☐
C	Conn, Size 1" (25), Height 7-3/8" (187)	☐
D	Conn, Size 1" (25), Height 10-3/4" (273)	☐
E	Conn, Size 1" (25), Height 11-1/2" (192)	☐
F	Conn, Size 1" (25), Height 14-7/8" (378)	☐

	TECHNICAL DATA						
	WHAT.25	WHAT.5	WHAT.75	WHAT.1	WHAT.13	WHAT.15	WHAT.2
Fixture Unit	1-3	1-11	12-32	33-60	61-113	114-154	155-330
"A" connection	1/2" (13)	1/2" (13)	3/4" (19)	1" (25)	1" (25)	1" (25)	1" (25)
"B" height	5" (129)	5-3/8" (152)	6-7/8" (175)	7-3/8" (187)	10-13/16" (276)	11-1/2" (292)	14-7/8" (464)
"C" diameter	3/8" (24)	3/8" (24)	1-7/8" (48)	2-3/16" (57)	2-11/16" (66)	3-5/16" (85)	3-5/16" (85)
Plumbing code	AA	A	B	C	D	E	F

Flexible Connector Double Sphere PN16

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Fig. WFCT-167



Features & Benefits

- Minimizes transmission of vibration and sound
- Absorbs expansion, contraction and misalignment within allowable movements

Specifications

- Precision moulded of synthetic rubber reinforced with nylon cord
- Electro galvanized malleable iron ends
- Taper threaded to BS/EN 10226-2 (ISO-7) formerly BS 21
- NPT threading available on request
- Available with limit wiring

MATERIAL SPECIFICATION

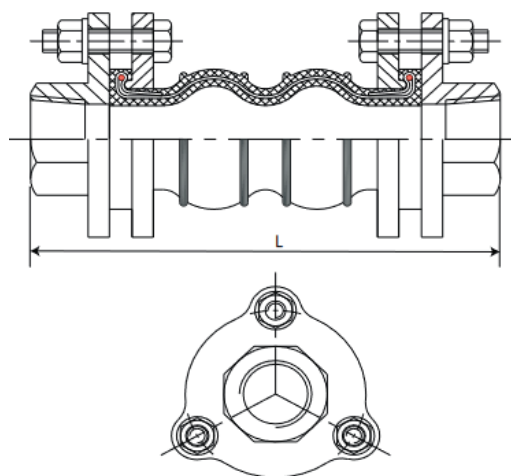
Description	Material
Outer Layer	EPDM
Reinforcement	Nylon Cord Fabric
Steel Wire	Carbon Steel
Bolt	Carbon Steel
Inner Layer	EPDM
Traingular Flanged Union	Malleable Iron

Pressure/Temperature Rating

- 16 bar from -10° to 115°C

Test Pressure

- Shell: 24 bar



DIMENSIONS & WEIGHT

DN	Inches	L (mm)	Axial Displacement (mm)		Lateral Displacement (mm)	Angle of Deflection (Degree)	Weight (kg)
			Stretch	Compression			
15	½	180	10	15	15	30	0.6
20	¾	180	10	15	15	30	0.7
25	1	180	10	15	15	30	1
32	1¼	245	10	15	15	20	1.3
40	1½	245	10	15	15	20	1.9
50	2	255	10	15	15	20	2.6

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

Flexible Connector: Single Sphere PN16

WESO

Fig. WFCF-167



Features & Benefits

- Minimizes transmission of vibration and sound
- Absorbs expansion, contraction and misalignment within allowable movements

Specifications

- Precision moulded of synthetic rubber reinforced with nylon cord
- Carbon steel floating flanges
- Flanged to BS/EN 1092-1 PN16 formerly BS 4504
- ANSI flanges available on request
- Available with control rods

MATERIAL SPECIFICATION

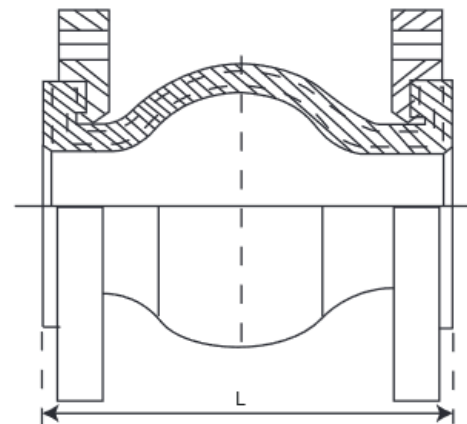
Description	Material
Outer Layer	EPDM
Reinforcement	Nylon Cord Fabric
Steel Wire	Carbon Steel
Inner Layer	EPDM
Flanges	Carbon Steel

Pressure/Temperature Rating

- 16 bar from -10° to 115°C

Test Pressure

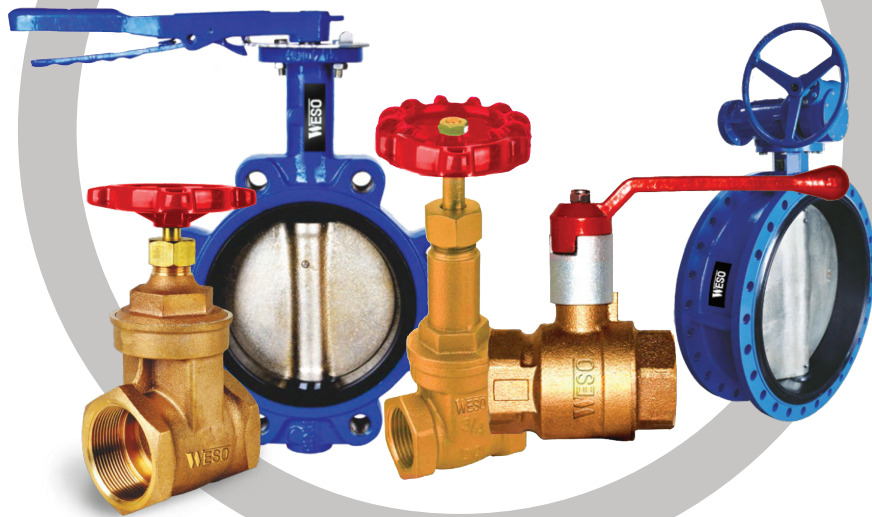
- Shell: 24 bar



DIMENSIONS & WEIGHT

DN	Inches	L (mm)	Axial Displacement (mm)		Lateral Displacement (mm)	Angle of Deflection (degree)	Weight (kg)
			Stretch	Compression			
65	2½	150	10	13	13	15	5.2
80	3	150	10	13	13	15	6.5
100	4	150	10	16	13	15	7
125	5	150	10	16	13	15	10
150	6	150	10	16	13	10	12
200	8	150	10	16	13	10	17
250	10	200	13	19	19	10	24
300	12	200	13	19	19	10	31

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



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