FAMAT
ENGINEERED VALVES

WATERWORK VALVES

Experts in valve technology since 1974

SWISS QUALITY
ISO 9001/2015

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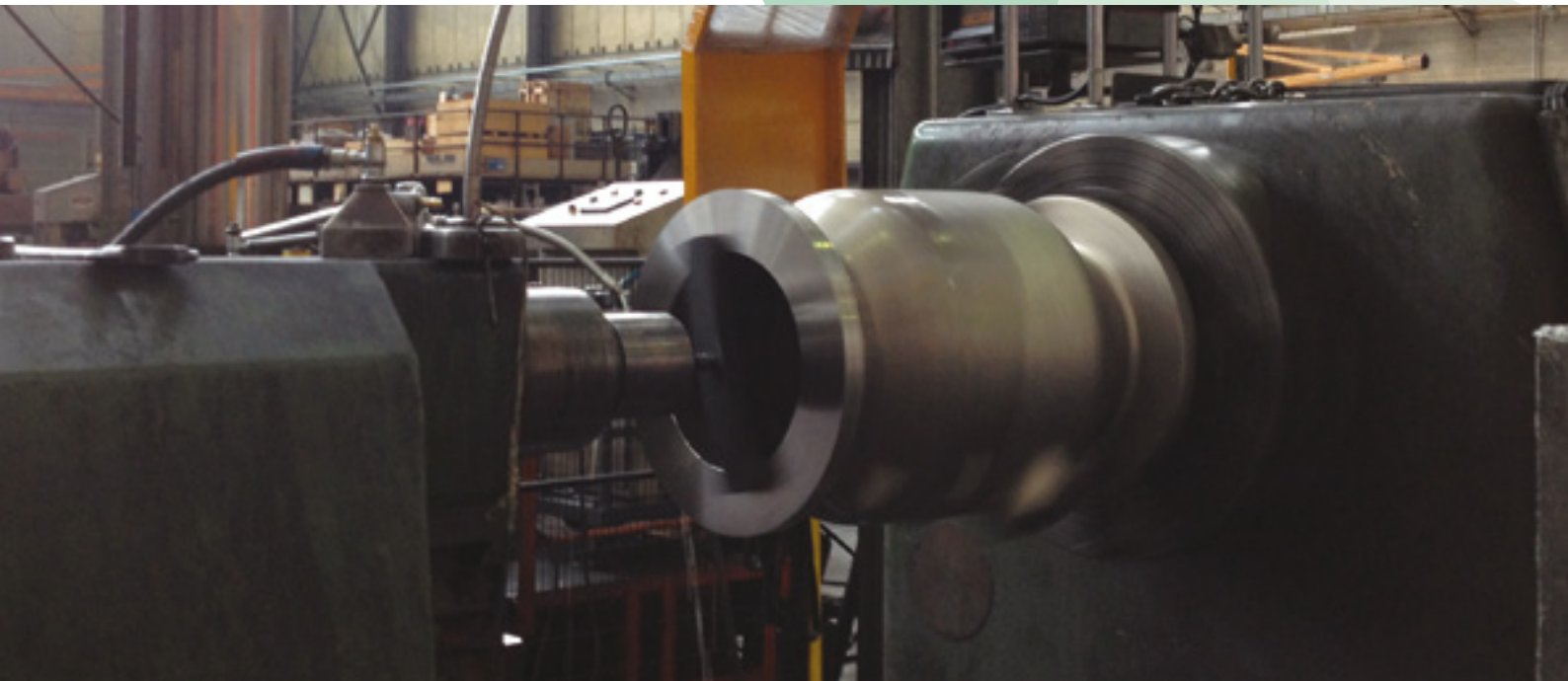

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ISO 9001/2015

FAMAT

Experts in valve technology since 1974

FAMAT SA is a Swiss engineering company active for over 40 years in the development and manufacturing of valves.

The main application fields in which we work are:

- ✓ Waterworks
- ✓ Power generation
- ✓ Petrochemical
- ✓ Oil and gas
- ✓ Pharmaceutical
- ✓ Chemical.

FAMAT has offices or agents in most major countries in Europe, Middle-East, Asia and America.
Our global network enables us a close cooperation with our customers and end-users, guaranteeing the full satisfaction at every level of the supply chain.

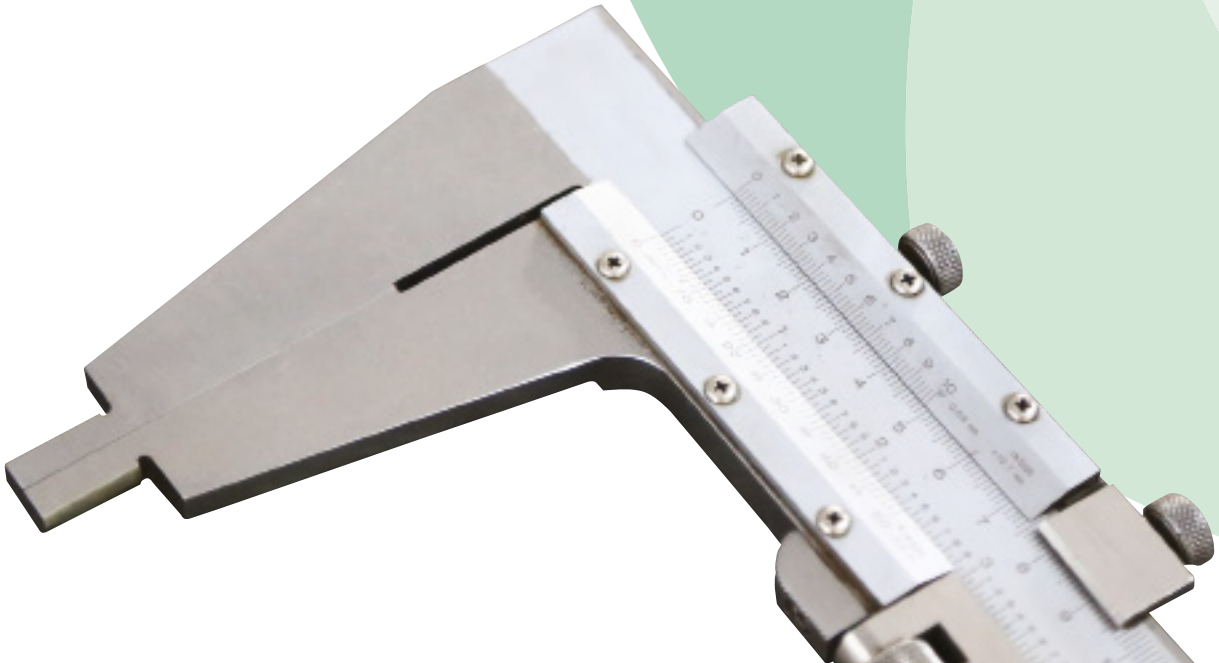
FAMAT

Quality and know-how

FAMAT supplies a complete range of products and services for waterworks systems.
For over 40 years we have been supplying standard and customized valves for projects all over the world.
Based on your technical requirements, we provide the best solution in terms of quality and cost.

ISO 9001
Quality System
Our company is ISO 9001 certified since 1995

We guarantee the total quality of our products and services.
The careful selection of our partners and suppliers is the main key for our success.
This rigourous quality control process is the base to ensure full customer satisfaction.



Engineering activities

FAMAT has a founded background for all engineering activities in the valves business.

Analysis

Each request we receive is treated with diligence and the greatest care.
We start by analysing:

- ✓ general technical specifications
- ✓ commercial conditions
- ✓ specific data about every item
- ✓ working and environmental conditions
- ✓ applicable standards and regulations.

Selection

FAMAT targets to optimize each item and engages itself to provide the customer with the most competitive offer, while joining the best technical performances with decisive economic advantages.

Presentation

Our offer includes full technical documentation and important parameters, allowing the customer a clear evaluation of the offer.

Contract review

Our experience in handling large projects allows us to give the customer a full support, from the first stage of the request to the stage of evaluation and negotiation of the order.

Final inspection

FAMAT coordinates and supervises the final inspection before shipment.

Technical services

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Technical support

Our expertise in a wide range of valve applications permits us to give the customer the best advices and recommendations at every stage of the project.

Follow-up

FAMAT experienced team of Project Managers uses performing tools to plan and monitor on a day-to-day basis the developments of each order, with its partners and sub-contractors.

Documentation

Final documentation is always part of our delivery, and can be submitted in any kind of format and language, fitting the need of customer's data book.

Logistic

FAMAT organizes all deliveries (on EXW, FCA, FOB, CIF) and provides all necessary shipping documents for customs clearances.

After sales service

FAMAT provides its full support at all stages of the project and guarantees the supply of spare parts at least for 10 years. FAMAT can proceed with revision and repairs, and on request sends its specialists on site as quickly as needed.

BC Rubber lined butterfly valves

BC1, BC2, BC3 and BC4

1. SHAFT
One piece through or two-piece shaft ensures correct disc position and maximum reliability.

2. MOUNTING FLANGE
The ISO 5211 mounting flange allows the direct mounting of operators:
- handle (lever)
- gearbox with handwheel
- pneumatic actuator
- electric actuator

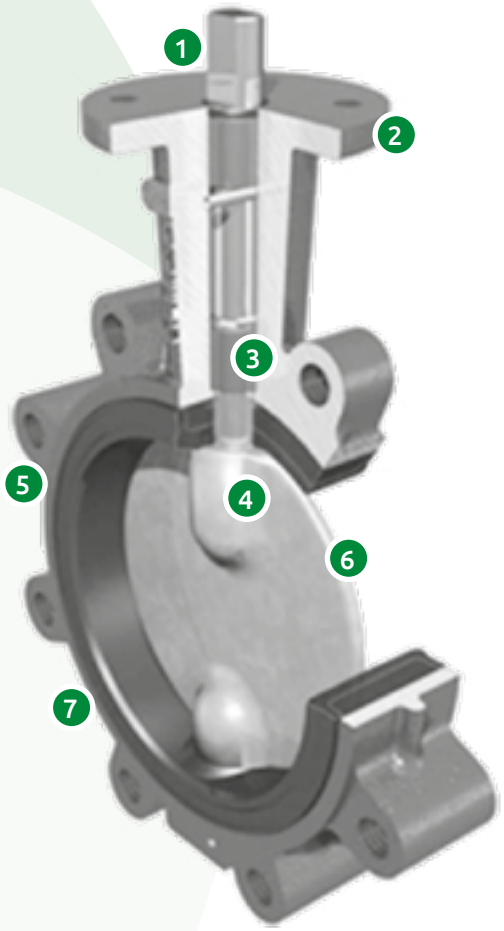
3. BEARINGS
Self-lubricating bearings minimize torque values and allow smooth and free operation service.

4. PIN
The pin ensures vibration-proof connection between shaft and disc.

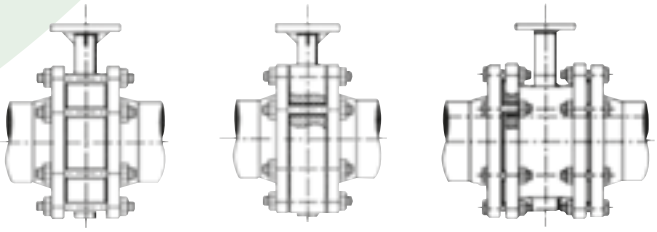
5. FLANGE FACE
The seat on the flange avoids the need of flange gasket.

6. DISC
Accurate machined profile provides bubble tight shut off, minimum torque and longer seat life.

7. SEAT
Rubber seat is vulcanized to body.
Good support, stable, stretch resistant and leakage proof.



End connections :



Wafer | Lug | Double Flanged

FAMAT
ENGINEERED VALVES

BC1 Rubber lined butterfly valves
Wafer type

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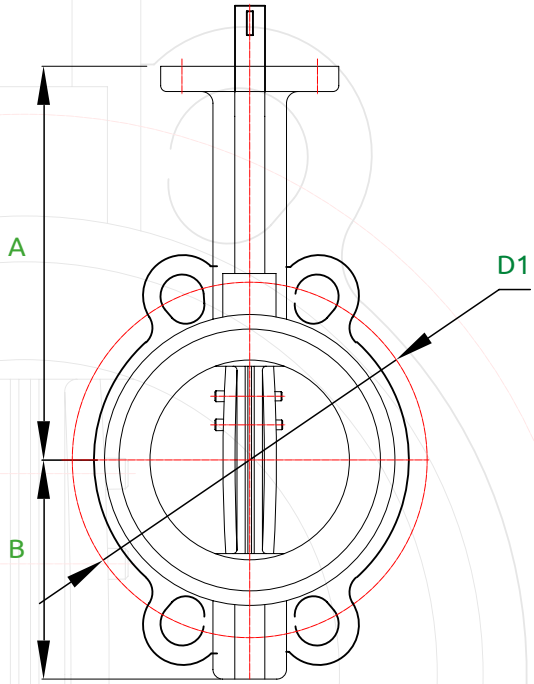
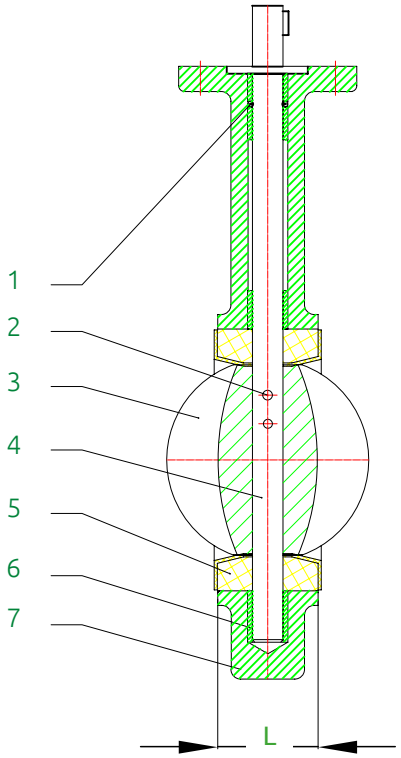
ENGINEERED VALVES

Appl. Standard	:	BS EN 593 - AWWA C504
Pressure class	:	PN 6 / 10 / 16 (ASME #150)
End flanges	:	EN 1092 PN 6 / 10 / 16 (ASME #150)
Face to face	:	EN 558-1 20 / API 609 / BS short
Top flange	:	ISO 5211
Testing	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.





1 UPPER SHAFT : SS410 / SS316 / Al-Bz
2 PIN : SS416
3 DISC : Ductile Iron + Ni / SS316 / Al-Bz
4 SHAFT : SS410 / SS316 / Al-Bz
5 SEAT : NBR / EPDM
6 BEARING : PTFE / Bz
7 BODY : GGG 40-50 / WCB / SS316 / Al-Bz

Overall dimensions (in mm) - PN16

SIZE	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
A	161	175	181	200	213	226	260	292	337	368	400	422	480	562
B	80	89	95	114	127	139	175	203	242	277	309	328	361	459
L	43	46	46	52	56	56	60	68	78	78	102	114	127	154
D1	125	145	160	180	210	240	295	355	410	470	525	585	650	770

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

BC2 Rubber lined butterfly valves
Lug type

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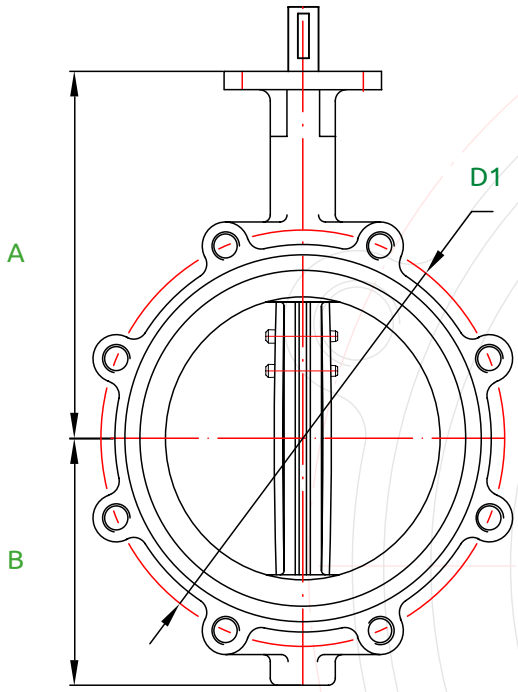
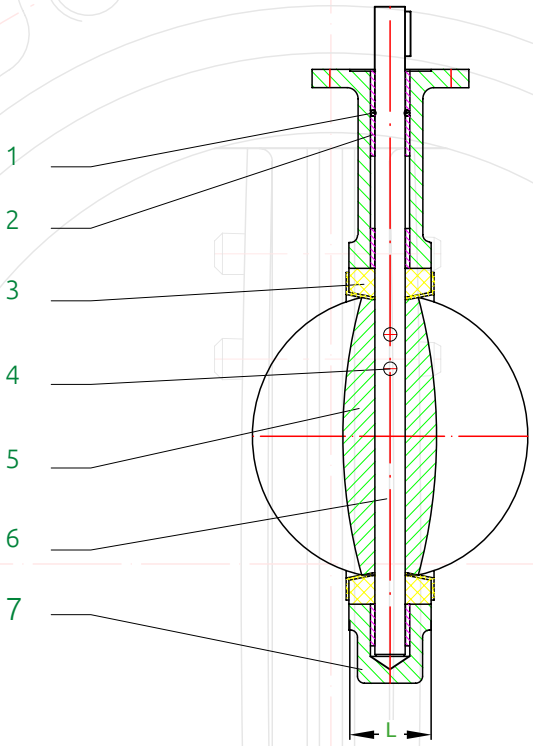
Appl. Standard	:	BS EN 593 - AWWA C504
Pressure class	:	PN 6 / 10 / 16 (ASME #150)
End flanges	:	EN 1092 PN 6 / 10 / 16 (ASME #150)
Face to face	:	EN 558-1 20 / API 609 / BS short
Top flange	:	ISO 5211
Testing	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.





1 O-RING : NBR / EPDM
2 BEARING : PTFE / Bz
3 SEAT : NBR / EPDM
4 PIN : SS410 / SS316 / Duplex
5 DISC : Ductile Iron + Ni / SS316 / Al-Bz
6 SHAFT : SS410 / SS316 / Al-Bz
7 BODY : GGG 40-50 / WCB / SS316 / Al-Bz

Overall dimensions (in mm) - PN16

SIZE	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
A	161	175	181	200	213	226	260	292	337	368	400	422	480	562
B	80	89	95	114	127	139	175	203	242	277	309	328	361	459
L	43	46	46	52	56	56	60	68	78	78	102	114	127	154
D1	110	145	160	180	210	240	295	355	410	470	525	585	650	770

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
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BC3 Rubber lined butterfly valves
Short double flanged type

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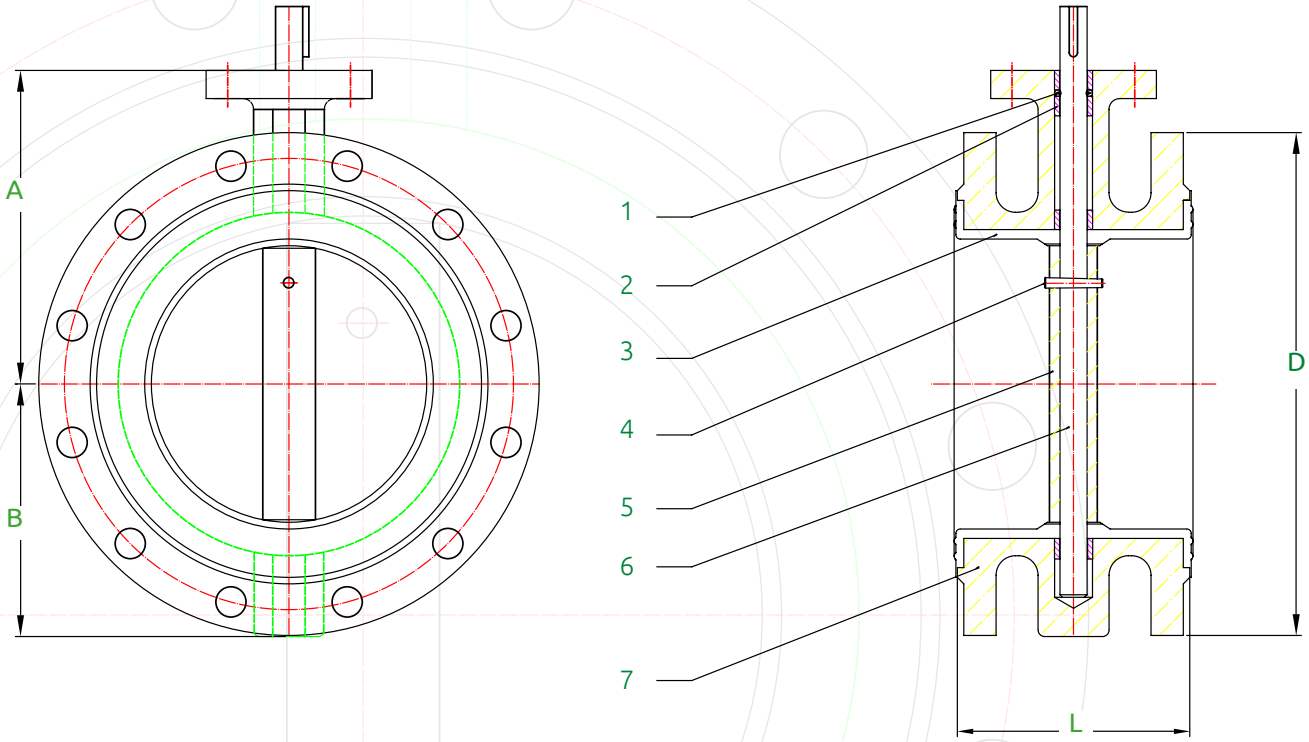
ENGINEERED VALVES

Appl. Standard	:	BS EN 593 - AWWA C504
Pressure class	:	PN 6 / 10 / 16 (ASME #150)
End flanges	:	EN 1092 PN 6 / 10 / 16 (ASME #150)
Face to face	:	EN 558-1 13 / DIN 3202 F16 / BS short
Top flange	:	ISO 5211
Testing	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



1 O-RING : NBR / EPDM
2 BEARING : PTFE / Bz
3 SEAT : NBR / EPDM
4 PIN : SS410 / SS316 / Duplex
5 DISC : Ductile Iron + Ni / SS316 / Al-Bz
6 SHAFT : SS410 / SS316 / Al-Bz
7 BODY : GGG 40-50 / WCB / SS316 / Al-Bz

Overall dimensions (in mm) - PN16

SIZE	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
A	120	130	145	155	170	190	209	238	280	310	340	375	430	500	560	620	685	735	917
B	83	93	100	114	125	143	176	204	223	270	300	340	355	410	478	529	584	657	799
D	165	185	200	220	250	285	340	405	460	520	580	640	715	840	910	1025	1125	1255	1485
L	108	112	114	127	140	140	152	165	178	190	216	222	229	267	292	318	330	410	470

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

BC4 Rubber lined butterfly valves
Long double flanged type

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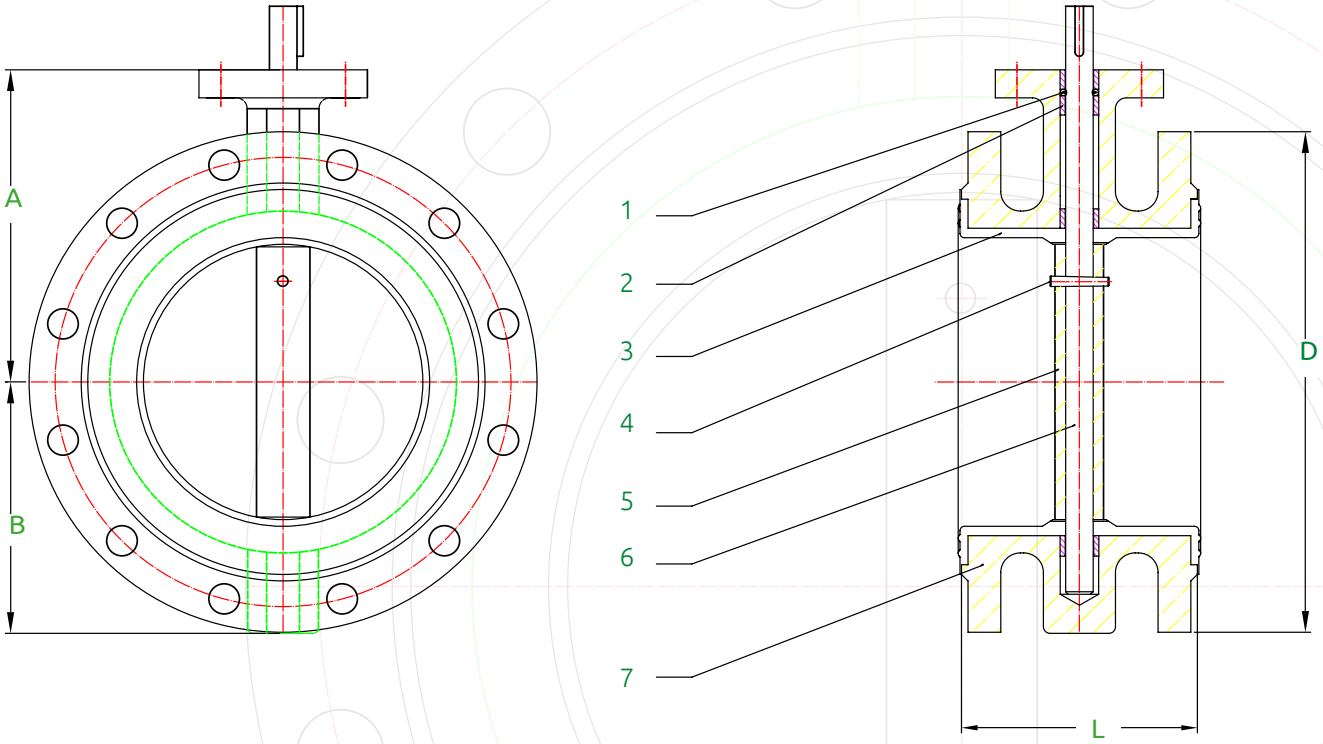
ENGINEERED VALVES

Appl. Standard	:	BS EN 593 - AWWA C504
Pressure class	:	PN 6 / 10 / 16 (ASME #150)
End flanges	:	EN 1092 PN 6 / 10 / 16 (ASME #150)
Face to face	:	EN 558-1 14 / DIN 3202 F16 / BS long
Top flange	:	ISO 5211
Testing	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



1 O-RING : NBR / EPDM
2 BEARING : PTFE / Bz
3 SEAT : NBR / EPDM
4 PIN : SS410 / SS316 / Duplex
5 DISC : Ductile Iron + Ni / SS316 / Al-Bz
6 SHAFT : SS410 / SS316 / Al-Bz
7 BODY : GGG 40-50 / WCB / SS316 / Al-Bz

Overall dimensions (in mm) - PN16

SIZE	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"
DN	80	100	125	150	200	250	300	265	400	450	500	600	700	800	900	1000	1200
A	200	220	250	285	340	405	460	520	580	640	715	840	910	1025	1125	1255	1485
B	100	114	125	143	176	204	223	270	300	340	355	410	478	529	584	657	799
D	200	220	250	285	340	405	460	520	580	640	715	840	910	1025	1125	1255	1485
L	180	190	200	210	230	250	270	290	310	330	350	390	430	470	510	550	630

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

BD Double eccentric butterfly valves

BD3-13 and BD3-14

1. SHAFT
One piece through or two-piece shaft ensures correct disc position and maximum reliability.

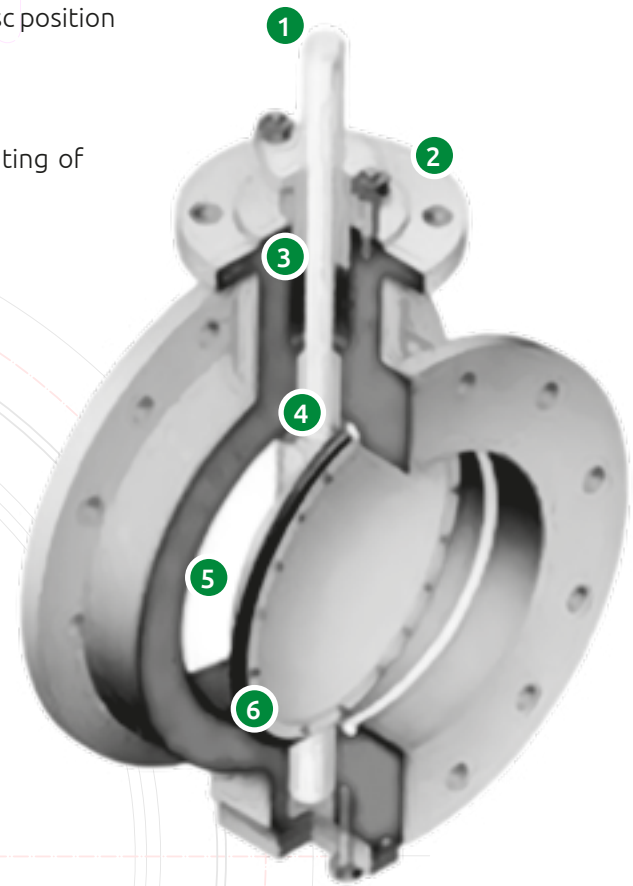
2. MOUNTING FLANGE
The ISO 5211 mounting flange allows the direct mounting of operators:
- handle (lever)
- gearbox with handwheel
- pneumatic actuator
- electric actuator

3. BEARINGS
Self-lubricating bearings minimize torque values and allow smooth and free operation service.

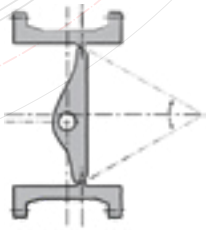
4. DISC
TDouble eccentric disk for low torque and minimum wear, for increased seat life.

5. SEAT
PTFE seat ring with specific design for low torque and optimum bubble tight sealing.

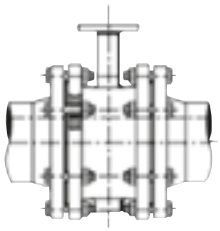
6. SEAT RETAINER
Unique seat retainer designed to minimize seat movement.



Double eccentric design:



End connections:



Double Flanged

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BD3-13 Double eccentric butterfly valves
Short double flanged type

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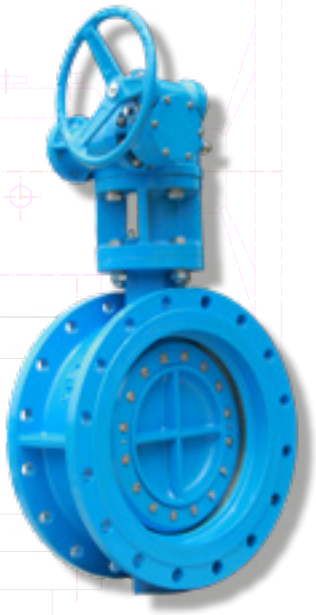
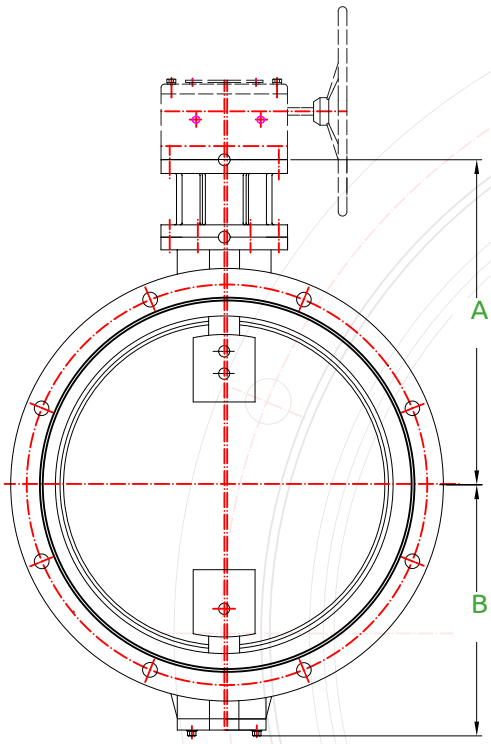
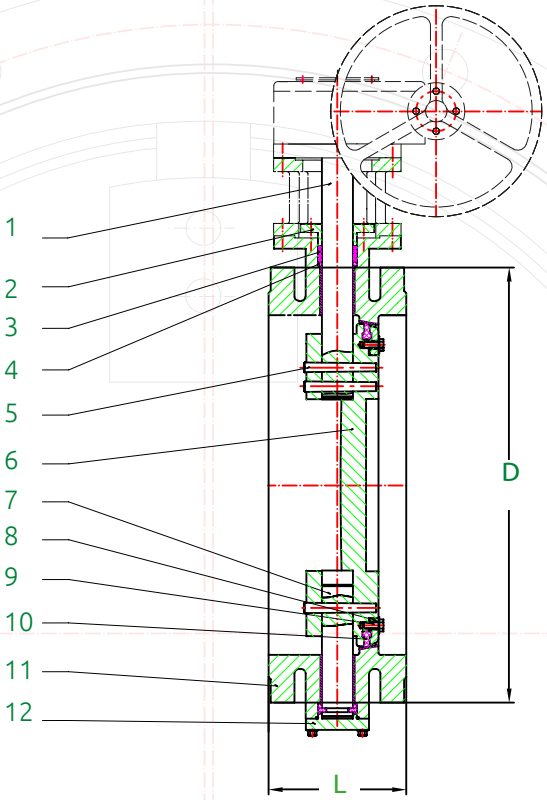
ENGINEERED VALVES



Appl. Standard	:	BS EN 593 - AWWA C504
Pressure class	:	PN 10 / 16 / 25 / 40* (ASME # 150 / #300) up to DN 600 only
End flanges	:	EN 1092 PN 10 / 16 / 25 / 40 (ASME #150 / #300)
Face to face	:	EN 558-1 13 / DIN 3202 F16 / BS short
Top flange	:	ISO 5211
Testing	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.





1	UPPER SHAFT : SS410 / SS316 / Al-Bz	5	PIN : SS410 / SS316 / Duplex / Monel	9	SCREW : St. Steel
2	GLAND : C. Steel / St. Steel / Al-Br	6	DISC : Ductile Iron + Ni / SS316 / Al-Bz	10	DISC SEAT : NBR / EPDM
3	O-RING : NBR / EPDM	7	LOWER SHAFT : SS410 / SS316 / Al-Bz	11	BODY : GGG 40-50 / WCB / SS316 / Al-Bz
4	BEARING : PTFE / Bz	8	RETAINER RING : C. Steel / St. Steel / Al-Br	12	BOTTOM CAP : C. Steel / St. Steel / Al-Br

Overall dimensions (in mm) - PN16

SIZE	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"	56"	64"	72"	80"
DN	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800	2000
A	225	270	288	320	363	406	468	508	533	560	635	693	743	803	875	1062	1253	1378	1493	1608
B	137	150	168	195	223	268	288	312	338	390	445	533	588	653	736	848	1082	1260	1360	1580
D	220	250	285	340	405	460	520	580	640	715	840	910	1025	1125	1255	1485	1685	1930	2130	2345
L	127	140	140	152	165	178	190	216	222	229	267	292	318	330	410	470	530	600	670	760

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

BD3-14 Double eccentric butterfly valves
Long double flanged type

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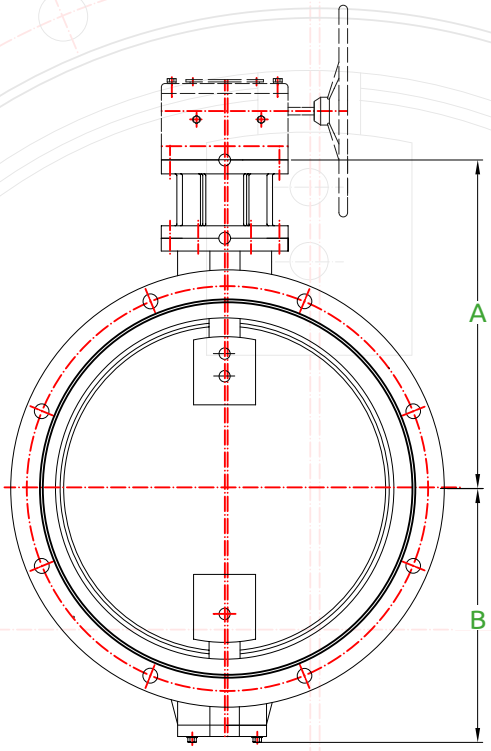
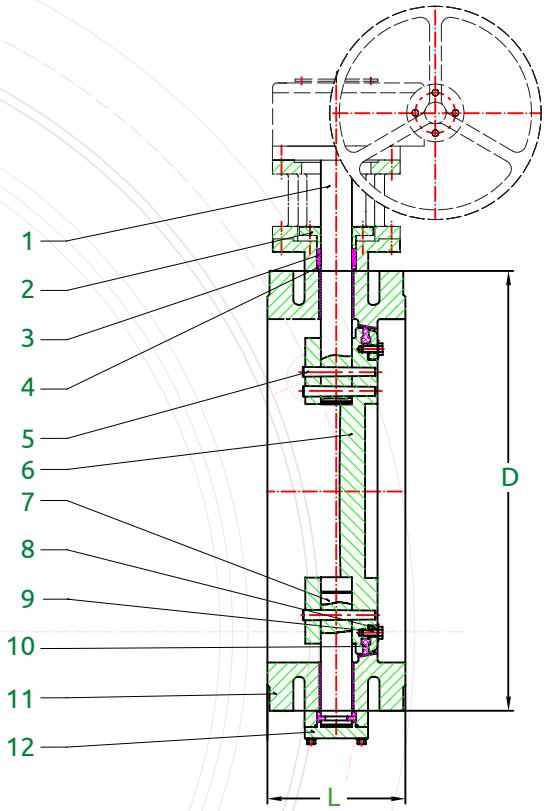
Appl. Standard	:	BS EN 593 - AWWA C504
Pressure class	:	PN 10 / 16 / 25 / 40* (ASME # 150 / #300) *up to DN 600 only*
End flanges	:	EN 1092-2 PN 10 / 16 / 25 / 40 (ASME # 150 / #300)
Face to face	:	EN 558-1 14 / DIN 3202 F4 / BS long
Top flange	:	ISO 5211
Testing	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.

Other special coating on demand.





1	UPPER SHAFT : SS410 / SS316 / Al-Bz	5	GLAND : C. Steel / St. Steel / Al-Br	9	O-RING : NBR / EPDM
2	BEARING : PTFE / Bz	6	PIN : SS410 / SS316 / Duplex / Monel	10	DISC : Ductile Iron + Ni / SS316 / Al-Bz
3	LOWER SHAFT : SS410 / SS316 / Al-Br	7	RETAINER RING : C. Steel / St. Steel / Al-Br	11	SCREW : St. Steel
4	DISC SEAT : NBR / EPDM	8	BODY : GGG 40-50 / WCB / SS316 / Al-Bz	12	BOTTOM CAP : C. Steel / St. Steel / Al-Br

Overall dimensions (in mm) - PN16

SIZE	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"	56"	64"	72"	80"
DN	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**	**600**	**700**	**800**	**900**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**
A	220	270	287	315	364	438	468	508	533	560	635	693	753	803	875	1012	1250	1375	1488	1590
B	138	155	173	225	248	283	313	343	368	395	460	518	588	653	727	808	1031	1170	1270	1360
D	220	250	285	340	405	460	520	580	640	715	840	910	1025	1125	1255	1485	1685	1930	2130	2345
L	190	200	210	230	250	270	290	310	330	350	390	430	470	510	550	630	710	790	870	950

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.

Other materials, dimensions and configurations are available on demand.

GS Resilient seated gate valves

Non-rising stem: GS1, GS2, and GS3/GS4

1. STEM BEARING
The unique design of stem collar and the use of anti-friction rings, allows low torque values.

2. STEM SEALS
Different options are available for stem seals.
Possible execution with replaceable O-ring while operating under pressure, or compressed stem packing.

3. NON-RISING STEM
FAMAT'S non-rising stem seated gate valve has a revolving non-rising stem that comes with a thread inside the valve chamber.

4. STEM NUT
During operation the stem revolves in the stem nut which carries along a solid wedge.

5. GUIDED WEDGE
The wedge is guided in the body in a cast groove. Together with the design of stem axial locking system, the valve is suitable for installation both in horizontal and vertical position.

6. VULCANIZED WEDGE
Resilient seated valves are equipped with vulcanized wedge, which provides 100% sealing that lasts for years. No metal part is exposed to fluid thus avoids any corrosion issue.

7. COATING
Upon request, the resilient seated valves can be supplied with approval for potable water (epoxy coating).

FAMAT
ENGINEERED VALVES

GS1 Resilient seated gate valves (non-rising stem) Short flanged type

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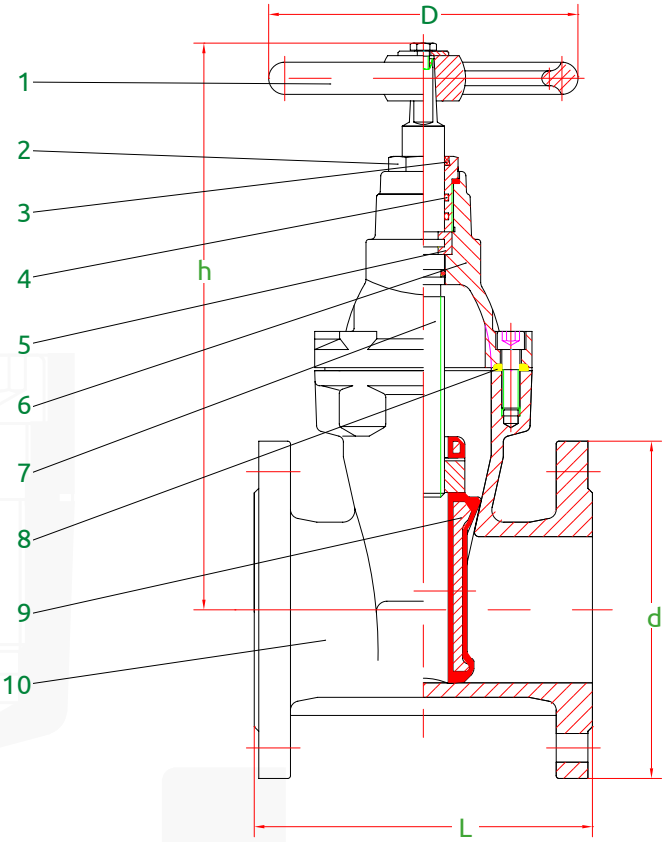
Appl. Standard	:	DIN3352
Pressure class	:	PN 10 / 16 (ASME #150)
End flanges	:	EN 1092-2 PN 10 / 16 (ASME #150)
Face to face	:	EN 558-1 14 / DIN 3202 F4
Testing	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



Note: picture and drawing refer to the long bonnet type. FAMAT can supply both short and long bonnet type, following technical requirements.

1 HANDWHEEL : Ductile Iron
2 STEM NUT : Bronze / SS316 / Al-Bz
3 DUST RING : NBR
4 O-RING : NBR / EPDM
5 HOLDING RING : Brass
6 BONNET : GGG 40-50 / WCB / SS316 / Al-Bz
7 STEM : SS410 / SS316 / Al-Bz / Brass
8 BONNET GASKET : EPDM / NBR
9 WEDGE : Ductile Iron + EPDM / NBR
10 BODY : GGG 40-50 / WCB / SS316 / Al-Bz

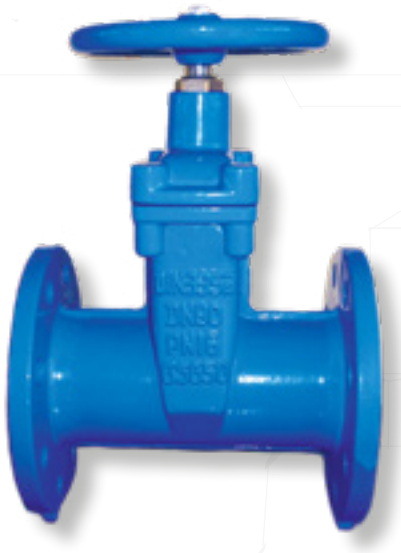
Overall dimensions (in mm) - PN16

SIZE	1 ½"	2"	2 ½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
D	180	180	180	205	240	240	280	320	360	450	500	560	560	650	650
h	265	275	280	315	360	400	445	545	640	740	970	1020	1120	1220	1370
d	150	165	185	200	220	250	285	340	405	460	520	580	640	715	840
L	140	150	170	180	190	200	210	230	250	270	290	310	330	350	390

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

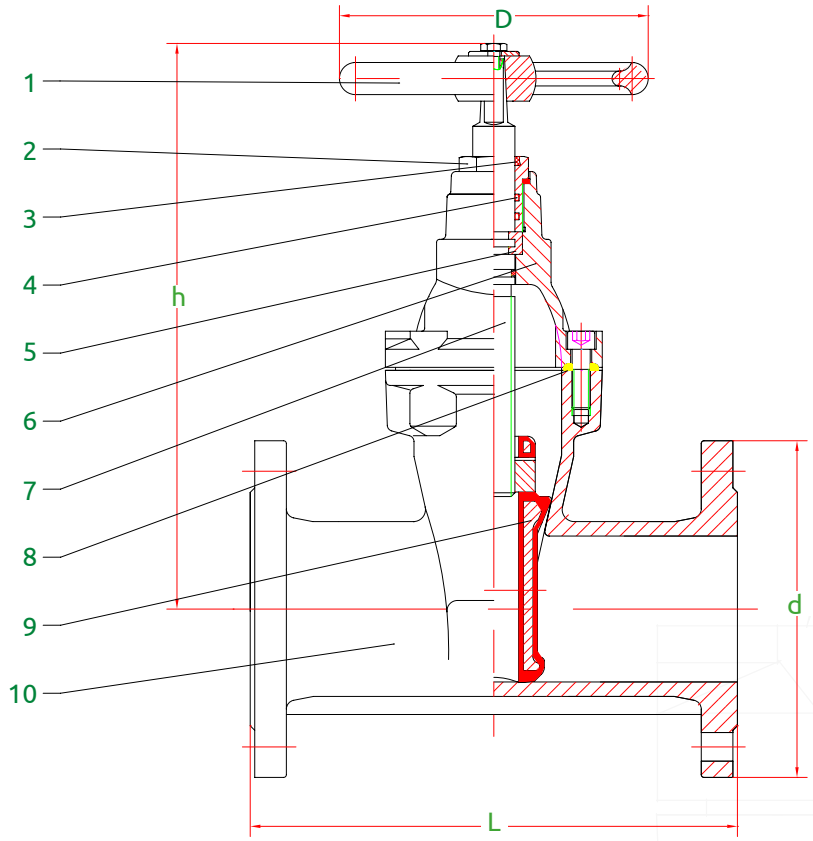
GS2 Resilient seated gate valves (non-rising stem)
Long flanged type

FAMAT
ENGINEERED VALVES



Appl. Standard	:	DIN3352
Pressure class	:	PN 10 / 16 (ASME #150)
End flanges	:	EN 1092-2 PN 10 / 16 (ASME #150)
Face to face	:	EN 558-1 15 / DIN 3202 F5
Testing	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



Note: picture refer to the short and drawing to the long bonnet type. FAMAT can supply both type, following technical requirements

1 HANDWHEEL : Ductile Iron
2 STEM NUT : Bronze / SS316 / Al-Bz
3 DUST RING : WCB
4 O-RING : NBR / EPDM
5 HOLDING RING : Brass
6 BONNET : GGG 40-50 / WCB / SS316 / Al-Bz
7 STEM : SS410 / SS316 / Al-Bz / Brass
8 BONNET GASKET : EPDM / NBR
9 WEDGE : Ductile Iron + EPDM / NBR
10 BODY : GGG 40-50 / WCB / SS316 / Al-Bz

Overall dimensions (in mm) - PN16

SIZE	1 ½"	2"	2 ½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
D	180	180	180	205	240	240	280	320	360	450	500	560	560	650	650
h	265	275	280	315	360	400	445	545	640	740	970	1020	1120	1220	1370
d	150	165	185	200	220	250	285	340	405	460	520	580	640	715	840
L	240	250	270	280	300	325	350	400	450	500	550	600	650	700	800

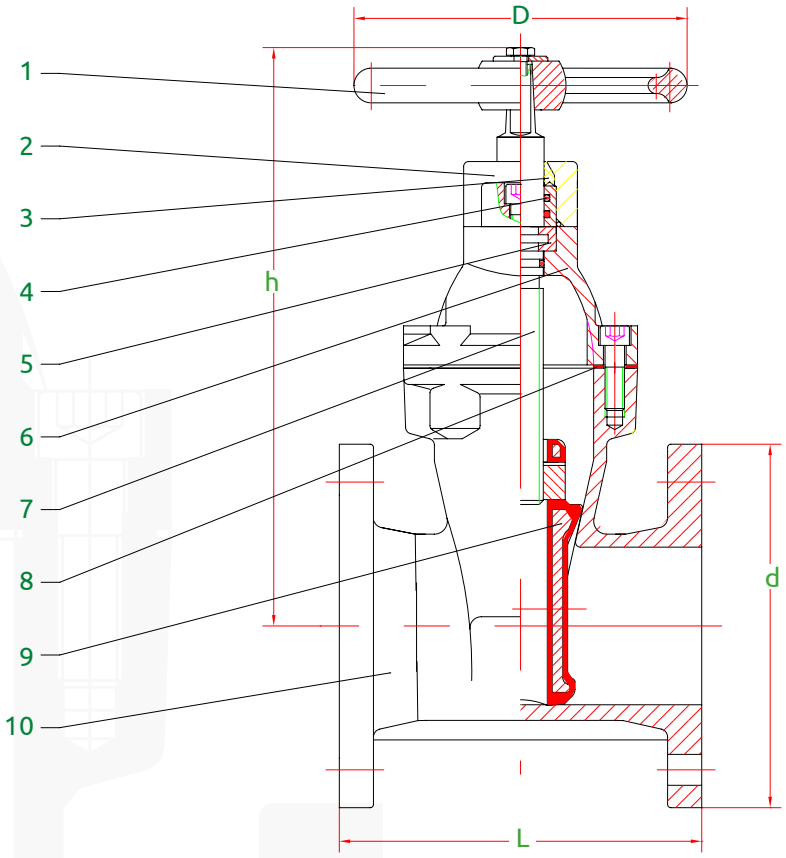
Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

GS3/GS4 Resilient seated gate valves (non-rising stem) BS 5163 or AWWA C509 type

FAMAT
ENGINEERED VALVES

Appl. Standard	:	BS 5163	:	AWWA C509
Pressure class	:	PN 10 / 16 (ASME #150)	:	ASME #150
End flanges	:	EN 1092-2 PN 10 / 16 (ASME #150)	:	EN 1092-2 PN 10 / 16 (ASME #150)
Face to face	:	EN 558-1 3 / BS 5163	:	EN 558-1 3 / ASME B16.10
Testing	:	EN 12266-1 / API 598	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



1 HANDWHEEL : Ductile Iron
2 STEM NUT : Bronze / SS316 / Al-Bz
3 DUST RING : WCB
4 O-RING : NBR / EPDM
5 HOLDING RING : Brass
6 BONNET : GGG 40-50 / WCB / SS316 / Al-Bz
7 STEM : SS410 / SS316 / Al-Bz / Brass
8 BONNET GASKET : EPDM / NBR
9 WEDGE : Ductile Iron + EPDM / NBR
10 BODY : GGG 40-50 / WCB / SS316 / Al-Bz

Overall dimensions (in mm) - PN16

SIZE	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
D	180	180	180	205	240	240	280	320	360	450	500	560	560	650	650
h	275	280	300	335	341	430	485	580	680	785	880	990	1120	1220	1370
d BS 5163	150	165	185	200	220	250	285	340	405	460	520	580	640	715	840
d AWWA C509	127	152	178	191	229	254	279	343	406	483	533	597	635	699	813
L	165	178	190	203	229	254	267	292	330	356	381	406	432	457	508

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

GM Metal seated gate valves

Non-rising stem: GM1, GM2 and GM3

1. STEM BEARING
With the unique design of stem collar and the use of anti-friction rings, low torque values are achieved.

2. NON-RISING STEM
FAMAT'S non-rising stem metal seated gate valve has a revolving non-rising stem that comes with a thread inside the valve chamber.

3. STEM SEALS
Different options are available for stem seals. Possible execution with replaceable O-ring while operating under pressure, or compressed stem packing.

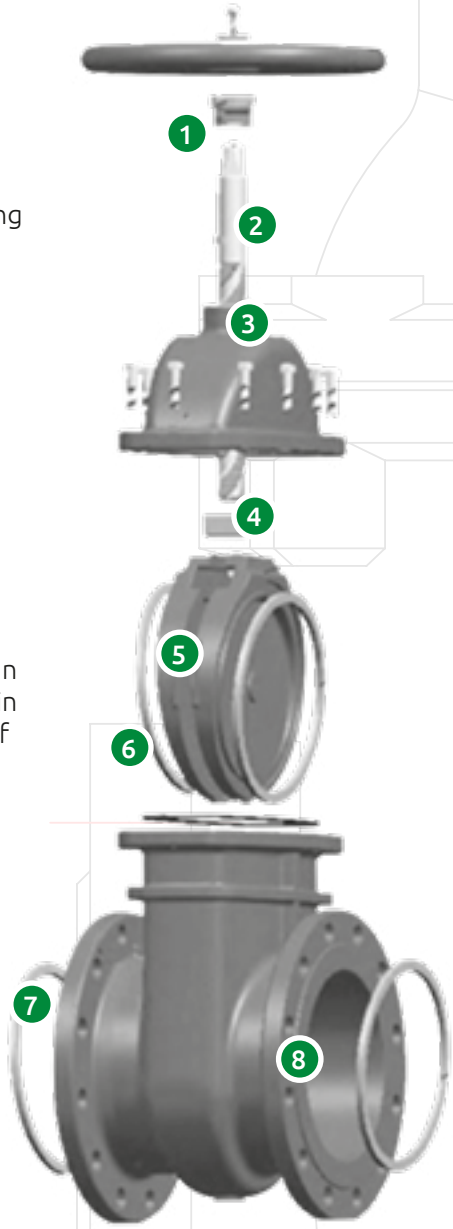
4. STEM NUT
During operation the stem revolves in the stem nut which carries along a solid wedge.

5. WEDGE
The wedge is guided in the body in a cast groove. Together with the design of stem axial locking system, the valve is suitable for installation both in horizontal and vertical position. The wedge is fully protected by a coating of fusion bonded epoxy.

6. WEDGE RINGS
Solid sealing rings are inserted in the wedge to guarantee maximum sealing in all operating conditions in every operating condition.

7. SEAT RINGS
Metal seats guarantee reliability and maximum resistance in heavy duty operations.

8. COATING
Upon request, the resilient seated valves can be supplied with approval for potable water (epoxy coating).



FAMAT
ENGINEERED VALVES

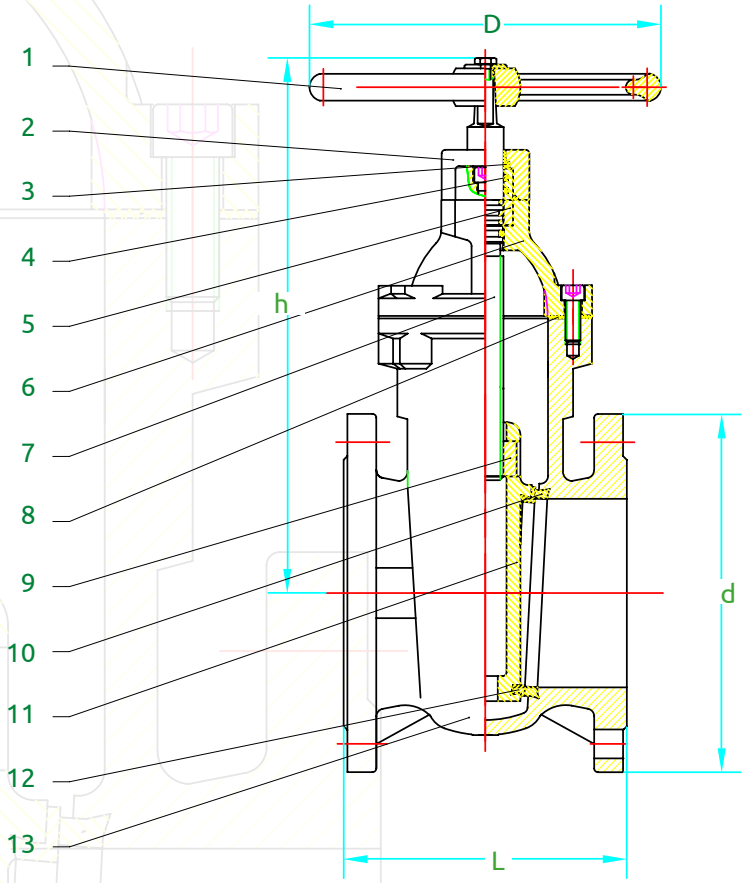
GM1 Metal seated gate valves (non-rising stem)
Series 14 flanged type

FAMAT
ENGINEERED VALVES

Appl. Standard	:	EN 1771 / EN 3552
Pressure class	:	PN 10 / 16 (ASME #150)
End flanges	:	EN 1092-2 PN 10 / 16 (ASME #150)
Face to face	:	EN 558-1 14 / DIN 3202 F4
Testing	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.

Other special coating on demand.



1 HANDWHEEL : Ductile Iron
2 GLAND : GGG 40-50/WCB/SS316/Al-Bz
3 DUST RING : NBR
4 O-RING : EPDM/NBR
5 HOLDING RING : Brass
6 BONNET : GGG 40-50 / WCB / SS316 / Al-Bz
7 STEM : SS410 / SS316 / Al-Bz
8 GASKET : EPDM/NBR
9 STEM NUT : Bronze / SS316 / Al-Bz
10 SEAT : Bronze / SS316 / Al-Bz
11 WEDGE : GGG 40-50 / WCB / SS316 / Al-Bz
12 WEDGE RING : Bronze / SS316 / Al-Bz
13 BODY : GGG40-50 / WCB / SS316 / Al-Bz

Overall dimensions (in mm) - PN16

SIZE	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
D	150	150	180	180	240	280	320	360	450	500	560	560	650	650
h	235	265	290	325	390	435	530	590	720	950	1035	1165	1230	1390
d	165	185	200	220	250	285	340	405	460	520	580	640	715	840
L	150	170	180	190	200	210	230	250	270	290	310	330	350	390

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.

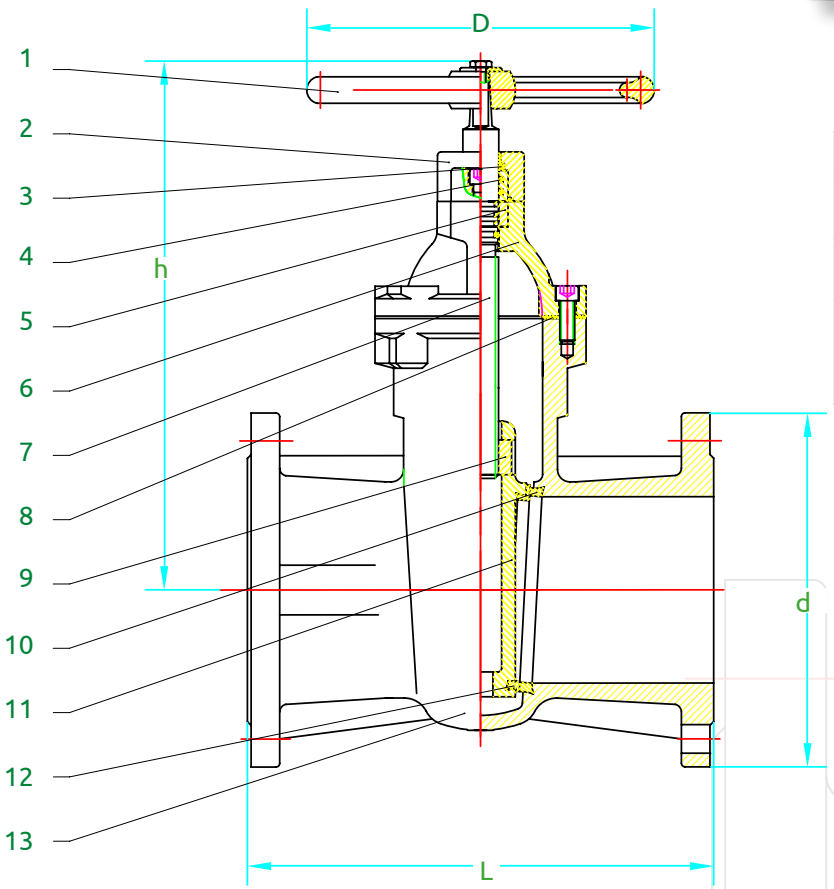
Other materials, dimensions and configurations are available on demand.

GM2 Metal seated gate valves (non-rising stem)
Series 15 flanged type

FAMAT
ENGINEERED VALVES

Appl. Standard	:	EN 1771 / EN 3552
Pressure class	:	PN 10 / 16 (ASME #150)
End flanges	:	EN 1092-2 PN 10 / 16 (ASME #150)
Face to face	:	EN 558-1 15 / DIN 3202 F5
Testing	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



1 HANDWHEEL : Cast Iron / Ductile Iron
2 GLAND : GGG 40-50/WCB/SS316/Al-Bz
3 DUST RING : NBR
4 O-RING : EPDM/NBR
5 HOLDING RING : Brass
6 BONNET : GGG 40-50 / WCB / SS316 / Al-Bz
7 STEM : SS410 / SS316 / Al-Bz
8 GASKET : EPDM/NBR
9 STEM NUT : Bronze / SS316 / Al-Bz
10 SEAT : Bronze / SS316 / Al-Bz
11 WEDGE : GGG 40-50 / WCB / SS316 / Al-Bz
12 WEDGE RING : Bronze / SS316 / Al-Bz
13 BODY : GGG40-50 / WCB / SS316 / Al-Bz

Overall dimensions (in mm) - PN16

SIZE	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
D	150	150	180	180	240	280	320	360	450	500	560	560	650	650
h	235	265	290	325	390	435	530	590	720	950	1035	1165	1230	1390
d	165	185	200	220	250	285	340	405	460	520	580	640	715	840
L	250	270	280	300	325	350	400	450	500	550	600	650	700	800

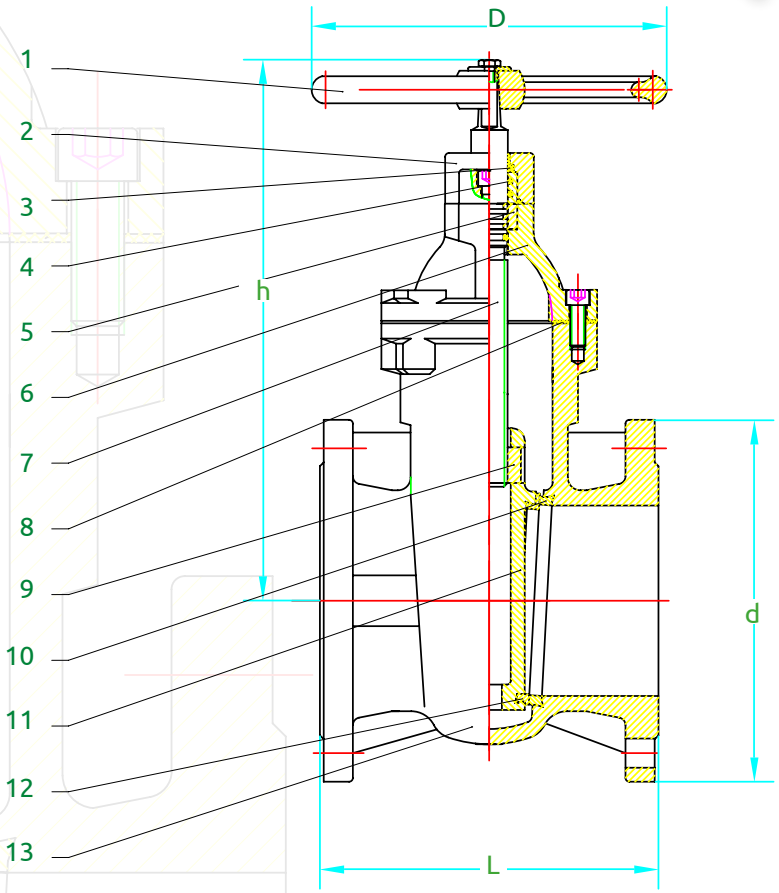
Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

GM3 Metal seated gate valves (non-rising stem)
Series 3 BS 5163 flanged type

FAMAT
ENGINEERED VALVES

Appl. Standard	:	EN 1771 / EN 3552
Pressure class	:	PN 10 / 16 (ASME #150)
End flanges	:	EN 1092-2 PN 10 / 16 (ASME #150)
Face to face	:	EN 558-1 3 / BS 5163
Testing	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



1 HANDWHEEL : Cast Iron / Ductile Iron
2 GLAND : GGG 40-50/WCB/SS316/Al-Bz
3 DUST RING : NBR
4 O-RING : EPDM/NBR
5 HOLDING RING : Brass
6 BONNET : GGG 40-50 / WCB / SS316 / Al-Bz
7 STEM : SS410 / SS316 / Al-Bz
8 GASKET : EPDM/NBR
9 STEM NUT : Bronze / SS316 / Al-Bz
10 SEAT : Bronze / SS316 / Al-Bz
11 WEDGE : GGG 40-50 / WCB / SS316 / Al-Bz
12 WEDGE RING : Bronze / SS316 / Al-Bz
13 BODY : GGG40-50 / WCB / SS316 / Al-Bz

Overall dimensions (in mm) - PN16

SIZE	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
D	180	180	205	240	240	280	320	360	450	500	560	560	650	650
h	260	285	335	365	420	480	570	670	775	950	1035	1165	1230	1390
d	165	185	200	220	250	285	340	405	460	520	580	640	715	840
L	178	190	203	229	254	267	292	330	356	381	406	432	457	508

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

GR Metal seated gate valves

Rising stem: GR1, GR2 and GR3

1. STEM SEALS
Different options available for stem seals, to fit all specific application requirements.

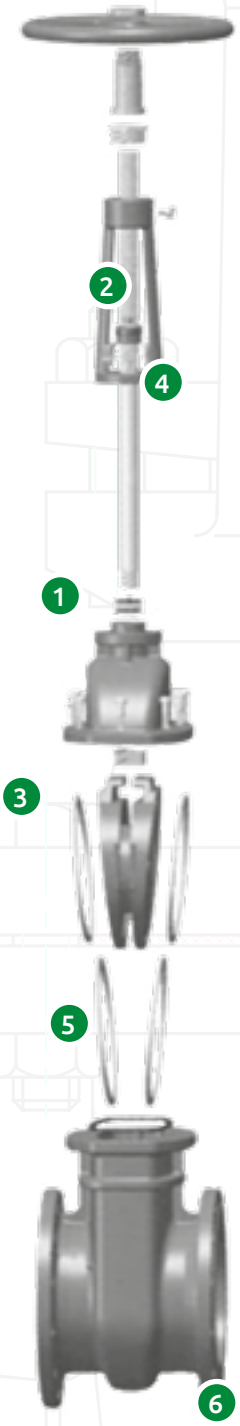
2. RISING STEM
The rising stem metal seated gate valve has a stem that comes out of the valve in open position.

3. WEDGE RINGS
Solid sealing rings are inserted in the wedge to guarantee maximum sealing in all operating conditions in every operating condition.

4. OUTSIDE SCREW AND YOKE
Stem is locked against axial movement with a collar inside the yoke. Open or close yoke is installed on the bonnet.

5. SEAT RINGS
Metal seats guarantee reliability and maximum resistance in heavy duty operations.

6. COATING
Upon request, resilient seated valves can be supplied with approval for potable water (epoxy coating).



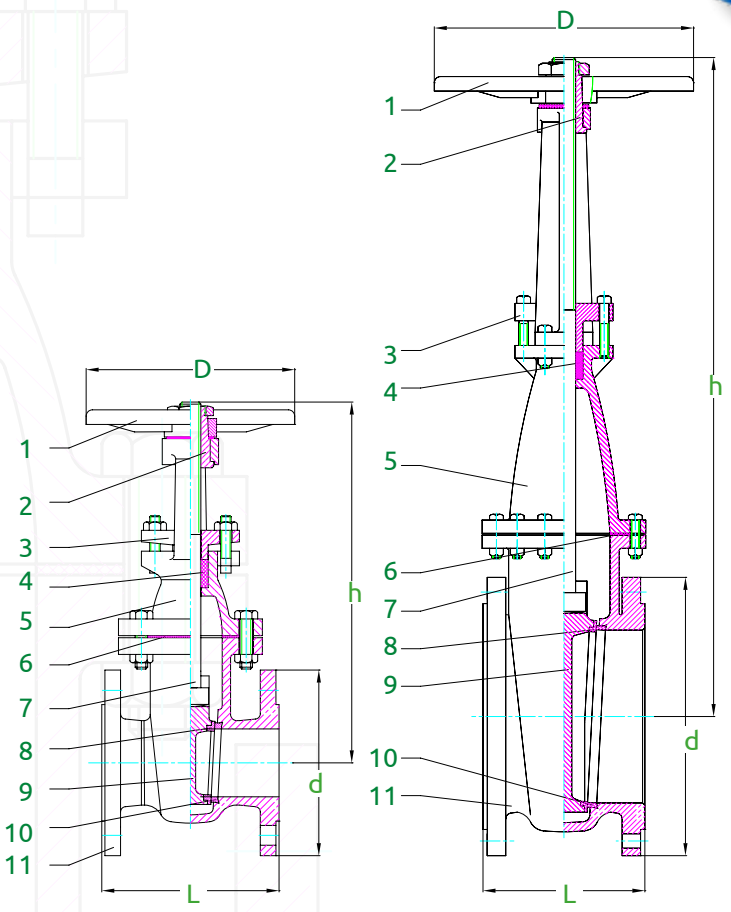
FAMAT
ENGINEERED VALVES

GR1 Metal seated gate valves (rising stem)
Series 14 flanged type

FAMAT
ENGINEERED VALVES

Appl. Standard	:	EN 1771 / EN 3552
Pressure class	:	PN 10 / 16 (ASME #150)
End flanges	:	EN 1092-2 PN 10 / 16 (ASME #150)
Face to face	:	EN 558-1 14 / DIN 3202 F4
Testing	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



1	HANDWHEEL : Cast Iron / Ductile Iron	5	BONNET : GGG 40-50 / WCB / SS316 / Al-Bz	9	WEDGE : GGG 40-50 / WCB / SS316 / Al-Bz
2	STEM NUT : Bronze / SS316 / Al-Bz	6	GASKET : EPDM/NBR	10	BODY SEAT RING : Bronze / SS316 / Al-Bz
3	GLAND : GGG 40	7	STEM : SS410 / SS420 / SS316 / Al-Bz	11	BODY : GGG40-50 / WCB / SS316 / Al-Bz
4	GLAND PACKING : PTFE, Graphite	8	WEDGE SEAT RING : Bronze / SS316 / Al-Bz		

Overall dimensions (in mm) - PN16

SIZE	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
D	200	200	200	200	200	200	315	315	400	500	500	500	600	600
h	385	390	452	485	605	655	795	925	1100	1300	1450	1600	1775	2250
d	165	185	200	220	250	285	340	405	460	520	580	640	715	840
L	150	170	180	190	200	210	230	250	270	290	310	330	350	390

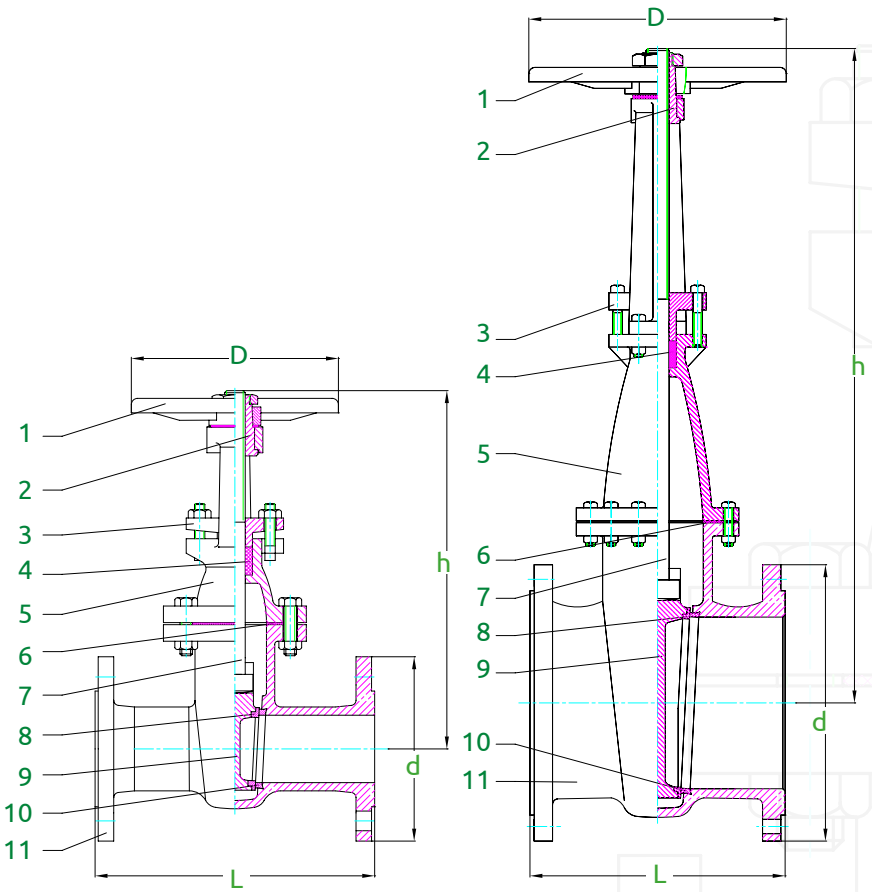
Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

GR2 Metal seated gate valves (rising stem)
Series 15 flanged type

FAMAT
ENGINEERED VALVES

Appl. Standard	:	EN 1771 / EN 3552
Pressure class	:	PN 10 / 16 (ASME #150)
End flanges	:	EN 1092-2 PN 10 / 16 (ASME #150)
Face to face	:	EN 558-1 15 / DIN 3202 F5
Testing	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



1 HANDWHEEL : CG25 / GGG 40-50
2 STEM NUT : Bronze/Brass/SS304/SS316/Ni/Al/Br
3 GLAND : GGG 40
4 GLAND PACKING : PTFE, Graphite
5 BONNET : GGG 40-50 / WCB / SS316 / Al-Bz
6 GASKET : EPDM/NBR
7 STEM : SS410 / SS420 / SS316 / Al-Bz
8 WEDGE SEAT RING : Bronze / SS316 / Al-Bz
9 WEDGE : GGG 40-50 / WCB / SS316 / Al-Bz
10 BODY SEAT RING : Bronze / SS316 / Al-Bz
11 BODY : GGG40-50 / WCB / SS316 / Al-Bz

Overall dimensions (in mm) - PN16

SIZE	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"
DN	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**	**600**	**700**	**800**	**900**	**1000**
D	200	200	200	250	250	250	315	315	400	600	600	600	600	600	600	800	800	800
h	375	425	450	495	605	655	800	925	1075	1322	1425	1600	1775	2250	2450	2800	3150	3500
d	165	185	200	220	250	285	340	405	460	520	580	640	715	840	910	1025	1125	1255
L	250	270	280	300	325	350	400	450	500	550	600	650	700	800	900	1000	1100	1200

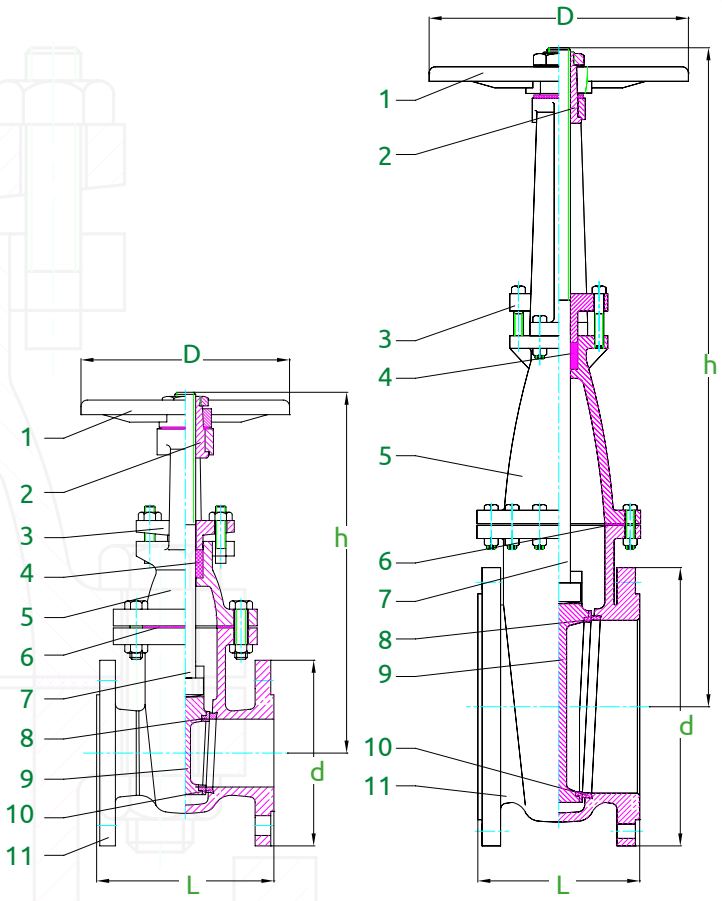
Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

GR3 Metal seated gate valves (rising stem)
Series 3 BS 5163 flanged type

FAMAT
ENGINEERED VALVES

Appl. Standard	:	EN 1771 / EN 3552
Pressure class	:	PN 10 / 16 (ASME #150)
End flanges	:	EN 1092-2 PN 10 / 16 (ASME #150)
Face to face	:	EN 558-1 14 / BS 5163
Testing	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



1	HANDWHEEL : GG25/GGG 40-50	5	BONNET : GGG 40-50/WCB/SS316/Al-Bz
2	STEM NUT : Bronze/Brass/SS304/SS316/Ni/al/Br	6	GASKET : EPDM/NBR
3	GLAND : GGG 40	7	STEM : SS410 / SS420 / SS316 / Al-Bz
4	GLAND PACKING : PTFE, Graphite	8	WEDGE SEAT RING : Bronze/SS316/Al-Bz
		9	WEDGE : GGG 40-50 / WCB / SS316 / Al-Bz
		10	BODY SEAT RING : Bronze / SS316 / Al-Bz
		11	BODY : GGG40-50 / WCB / SS316 / Al-Bz

Overall dimensions (in mm) - PN16

SIZE	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
D	200	200	200	250	250	250	315	315	400	600	600	600	600	600
h	375	425	450	495	605	655	800	925	1075	1322	1425	1600	1775	2250
d	165	185	200	220	250	285	340	405	460	520	580	640	715	840
L	178	190	203	229	254	267	292	330	356	381	406	432	457	508

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

Options for Gate valves

1. POSITION INDICATOR

It allows the operator to understand easily wheter the valve is in open or closed position.
This features is available both for rising and non-rising stem valves.

2. STEM CAP TOP

Cap top end option is available for all resilient seated valve in our range.
Non-standard size on demand.

3. TOP FLANGE FOR ACTUATOR

On demand all resilient seated gate valves can be provided with top flange according to ISO 5210, to fit any type of actuator.

4. GEARBOX

Gearbox is available for every size of valve.
Suitable for handwheel operation, stem cap or mounting of actuator.

5. EXTENSION SPINDLE

Extention spindle allows to operate from surface the valves installed undergroung.
Various lenght and configuration are available.

6. STEM PACKING

Stem packing option is available when specifically required for special service condition (except for O-ring execution).

SC Swing check valves

SC1 and SC2

1. ACCESSORIES & OPTIONS
The shaft allows the installation of optional counterweight or actuator .
Dampers and position indicators are also available on request.

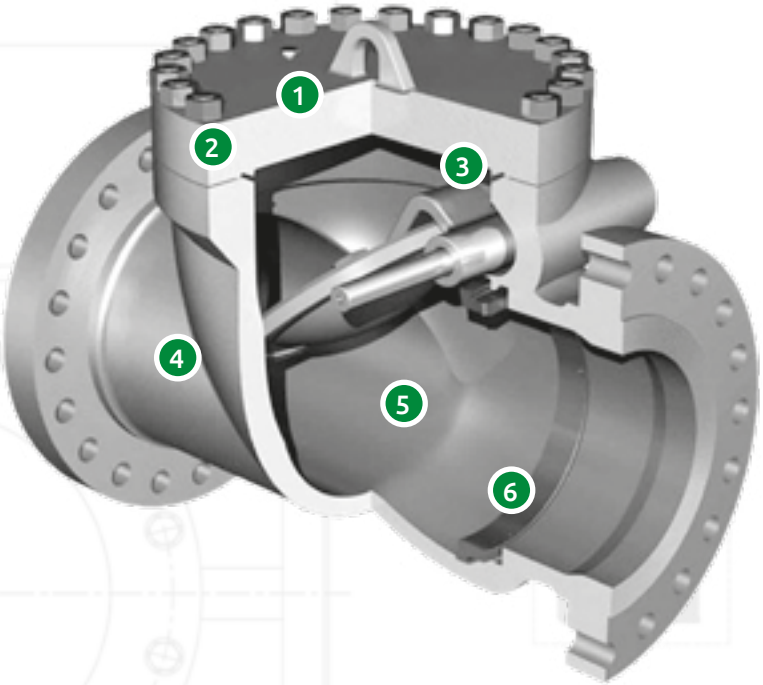
2. EASY MAINTENANCE
The bolted bonnet and the specific design allow easy dismantling for on-site servicing and inspection.

3. DISC & HINGE
Solid disc and hinge are designed for maximum reliability.

4. QUALITY CAST BODYE
Body is manufactured from high quality castings.
Several body materials available on request.

5. COATING
Upon request, swing check valves can be supplied with approval for potable water (epoxy coating).

6. IMPROVED SEAT DESIGN
Thanks to specific seat design, the valve guarantees sealing in low back pressure services even without counterweight.
The seat design is suitable also for sewage service without risk of damages.



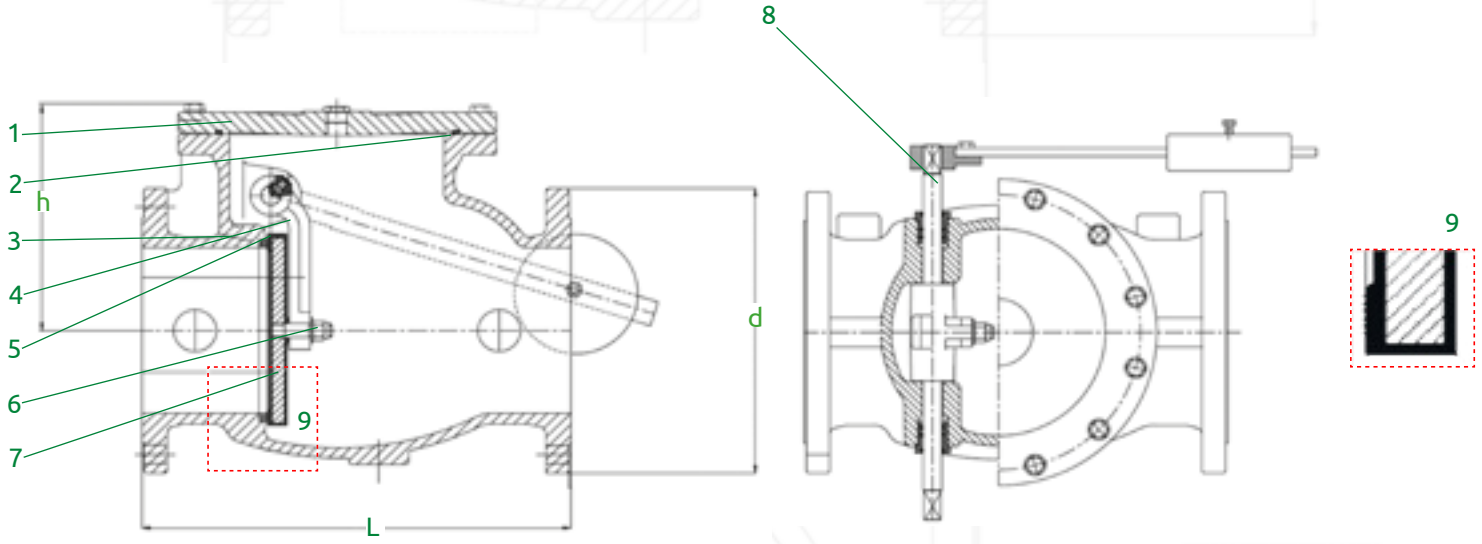
FAMAT
ENGINEERED VALVES

SC1 Swing check valves
Series 48 flanged type

FAMAT
ENGINEERED VALVES

Appl. Standard	:	EN 558-1 / BS 5153
Pressure class	:	PN 10 / 16 / 25 / 40 (ASME #150 / #300)
End flanges	:	EN 1092-2 PN 10 / 16 / 25 / 40 (ASME #150 / #300)
Face to face	:	EN 558-1 48 / DIN 3202 F6
Testing	:	EN 12266-1

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



1 COVER : GGG 40-50 / WCB / SS316 / Al-Bz
2 GASKET : EPDM / NBR
3 BODY : GGG 40-50/WCB/SS316/Al-Bz
4 HINGE : GGG 40-50/WCB/SS316/Al-Bz
5 SEAT : Bronze / SS316 / Al-Bz
6 NUT : Bronze / SS410 / SS316 / Al-Bz
7 DISC : GGG 40-50 / WCB / SS316 / Al-Bz
8 SHAFT : SS410 / SS316 / Al-Br
9 SEAL : EPDM / NBR / PTFE

Overall dimensions (in mm) - PN16

SIZE	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"
DN	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**	**600**	**700**	**800**	**900**	**1000**
h	100	110	120	140	140	200	215	265	285	370	375	475	515	600	610	765	810	910	975
d	150	165	185	200	220	250	285	340	405	460	520	580	640	715	840	910	1025	1125	1255
L	180	200	240	260	300	350	400	500	600	700	800	900	1000	1100	1300	1500	1700	1900	2100

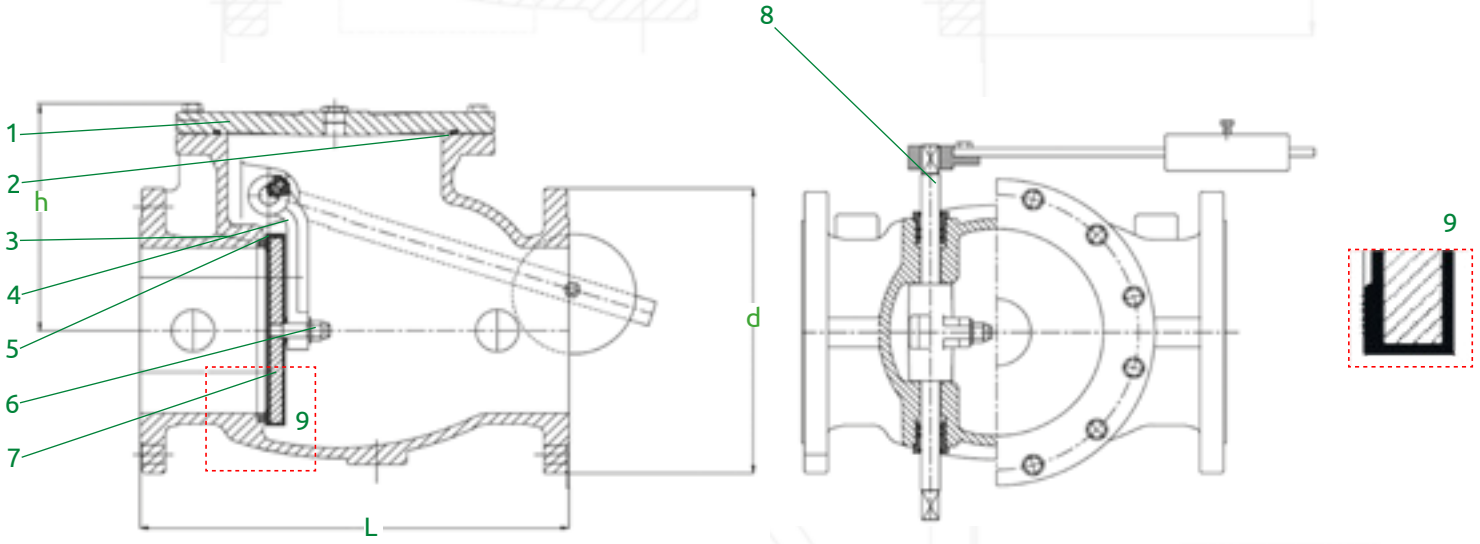
Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

SC2 Swing check valves
Series 10 flanged type

FAMAT
ENGINEERED VALVES

Appl. Standard	:	BS 5153
Pressure class	:	PN 10 / 16 / 25 / 40 (ASME #150 / #300)
End flanges	:	EN 1092-2 PN 10 / 16 / 25 / 40 (ASME #150 / #300)
Face to face	:	EN 558-1 10 / BS 513
Testing	:	EN 12266-1

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



1 COVER : GGG 40-50 / WCB / SS316 / Al-Bz
2 GASKET : EPDM / NBR
3 BODY : GGG 40-50/WCB/SS316/Al-Bz
4 HINGE : GGG 40-50/WCB/SS316/Al-Bz
5 SEAT : Bronze / SS316 / Al-Bz
6 NUT : Bronze / SS410 / SS316 / Al-Bz
7 DISC : GGG 40-50 / WCB / SS316 / Al-Bz
8 SHAFT : SS410 / SS316 / Al-Br
9 SEAL : EPDM / NBR / PTFE

Overall dimensions (in mm) - PN16

SIZE	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"
DN	40	50	65	80	100	125	150	200	250	300	350	400
h	100	110	120	140	140	200	215	265	285	370	375	475
d	150	165	185	200	220	250	285	340	405	460	520	580
L	165	203	216	241	292	330	356	495	622	698	787	914

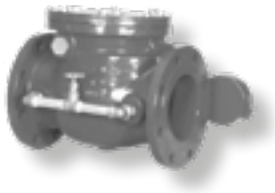
Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

Options for Swing check valves

1. COUNTERWEIGHT

The counterweight enables the fast closing of the valve. When normal flow drops, the counterweight overcomes the flow force and closes the disc, before any backflow may occur.
The counterweight also acts as position indicator.

A protection cover is also available for the valves with counterweight. The metal cage avoids any potential harm to passer-by.

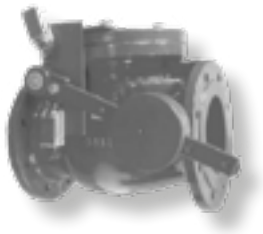


2. BYPASS

In some cases (for example when installed in the suction pipe of a pump) the backflow prevention may interfere with the functioning of the system.
A swing check valve with bypass system allows the operator to avoid such interference.

3. CUSHIONING - DASHPOT

In certain applications, the fast closure of a swing check valve may cause water hammer or surge in the system. The dashpot makes the valve close very fast in the first step, and after slowly till complete closure. This procedure prevents water hammer in all operating conditions.



4. LIMIT SWITCHES

Limit switches can be installed on the valve to indicate the position of the valve. Various options are available to fulfil any customer specification.

AC Axial check valves (silent check)

AC1

1. GUIDED DISC
The disc is guided centrally for maximum reliability and perfect sealing. The valve can be installed in any position, vertical or horizontal, flow up or flow down.

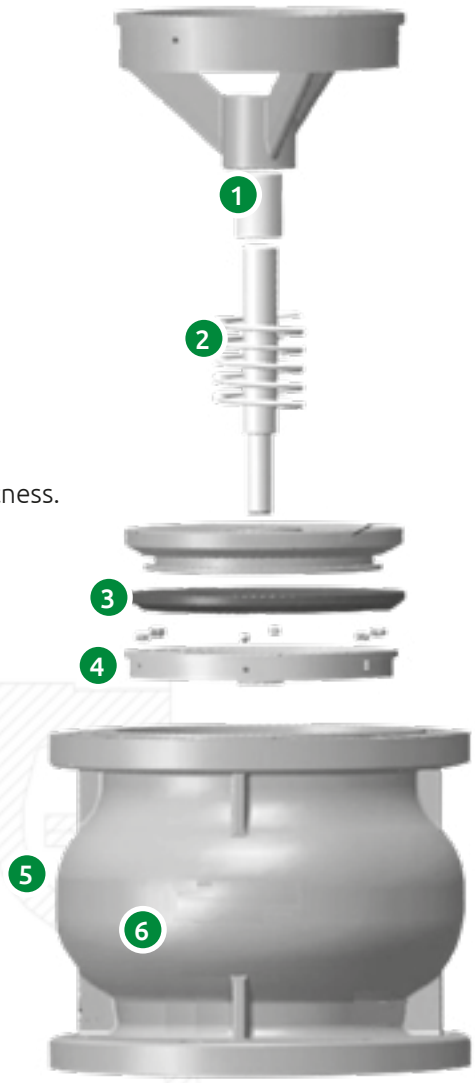
2. SPRING LOADED
The spring mechanism allows an instant closing, before any backflow may occur.

3. SEAL
The soft seal, usually in rubber material, guarantees complete closure and tightness. It is designed for easy maintenance operation.

4. DISC
The disc is designed to allow fast operation and to avoid surge.

5. GLOBE DESIGN
When the plug moves up in normal flow direction, the nominal diameter increases proportionally, allowing higher flow.
Pressure loss is minimized.

6. COATING
Upon request, axial check valves can be supplied with approval for potable water (epoxy coating).



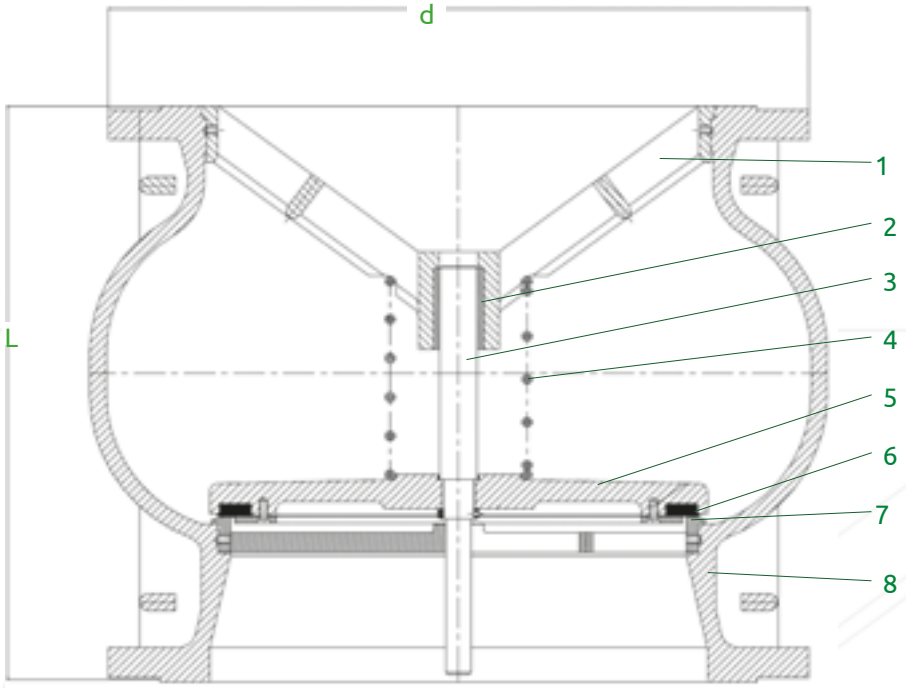
FAMAT
ENGINEERED VALVES

AC1 Axial check valves (silent check)

FAMAT
ENGINEERED VALVES

Appl. Standard	:	EN 1074-3
Pressure class	:	PN 10 / 16 / 25 (ASME #150)
End flanges	:	EN 1092-2 PN 10 / 16 / 25 (ASME #150)
Face to face	:	Manufacturer Standard
Testing	:	EN 12266-1 / API 598

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



1 SHAFT GUIDE : GGG 40-50 / WCB / SS316 / Al-Bz
2 BEARING : PTFE / Bronze
3 SHAFT : SS410 / SS316 / Al-Br
4 SPRING : SS304 / SS316
5 DISC : SS410 / SS420 / SS316 / Al-Bz
6 SEAL : EPBM / NBR / PTFE
7 SEAT : Bronze / SS316 / Al-Bz
8 BODY : GGG 40-50 / WCB / SS316 / Al-Bz

Overall dimensions (in mm) - PN16

SIZE	3"	4"	5"	6"	8"	10"	12"	14"	16"	20"	24"
DN	80	100	125	150	200	250	300	350	400	500	600
L	155	175	200	225	275	325	375	425	475	587	710
d	200	220	250	285	340	405	460	520	580	715	840

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

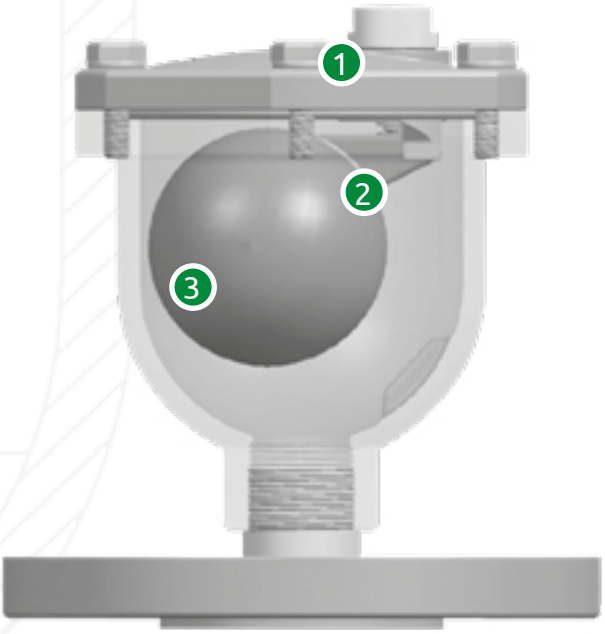
AR Air release valves

Single chamber - Single function: AR1

1. ORIFICE
The valve has a precision orifice (1.5 - 5mm) to release air pockets under pressure, during pipeline operation.

2. LEVER MECHANISM
The float in the air release valve detects the presence of air. A properly set lever mechanism gives the float mechanical advantage in opening the orifice under full pipeline pressure.

3. FLOAT
Thanks to the design of the valve, the float remains stable during air intake/discharge, preventing the undesired closing of the valve.



AIR RELEASE FUNCTION
Air release valve are used to prevent pipeline burst and to reduce the energy consumption caused by pressurized air pockets that may occur during operation.
NOTE: This valve is not suitable for intake/discharge of large air volumes that are generated during the start-up / shut-off of the system.
For that, please refer to other valves in our range (AV1 or AD1).

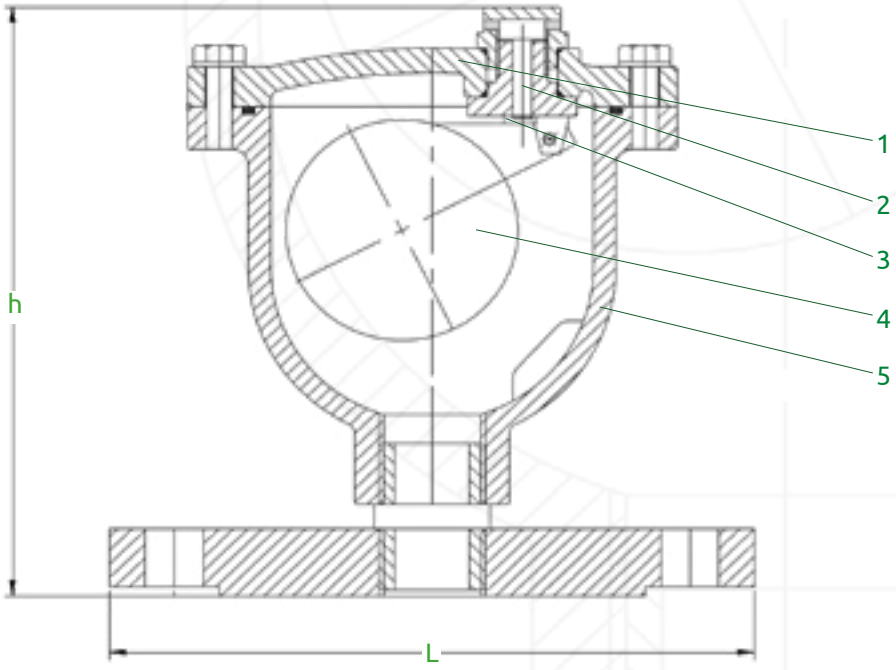
AR1 Air release valves
Single chamber - Single function

FAMAT
ENGINEERED VALVES

Appl. Standard	:	AWWA C512
Pressure class	:	PN 10 / 16 / 25 (ASME #150)
End flanges	:	1''NPT EN 1092-2 PN 10 / 16 / 25 (ASME #150)
Testing	:	AWWA C512 / EN 12266-1

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.

Other special coating on demand.



1 COVER : GGG 40-50 / WCB / SS316 / Al-Bz
2 ORIFICE : SS316
3 SEAL : EPDM /NBR
4 BALL : Polypropylene
5 BODY : GGG 40-50 / WCB / SS316 / Al-Bz

Overall dimensions (in mm) - PN16

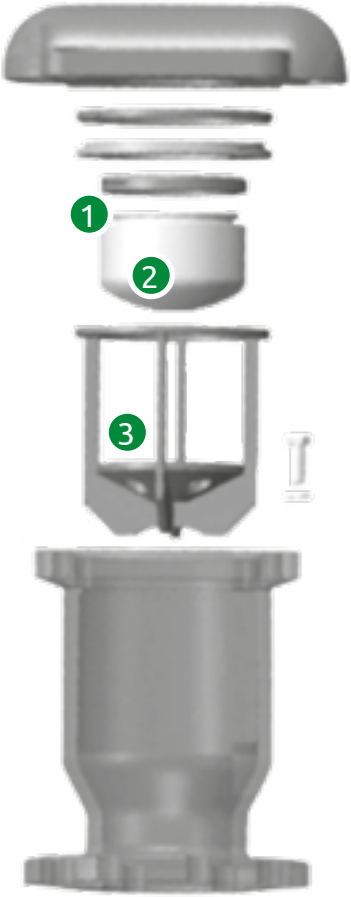
SIZE	1½"	2"	2½"	3"	4"	5"	6"
DN	40	50	65	80	100	125	150
h	195	195	195	195	195	195	195
d	150	165	185	200	220	250	285

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.

Other materials, dimensions and configurations are available on demand.

AV Air release / vacuum valves

Single chamber - Double function: AV1



1. SEALING
When the water level increases, the float rises and pushes against the sealing, which closes the valve when the air has been exhausted. When the level drops the float drops too, permitting intake of large volumes of air into the system.

2. FLOAT
Thanks to the design of the valve, the float remains stable during air intake/discharge, preventing undesired closing of the valve.

3. CAGE GUIDE
The float is fully guided by the cage, which permits vertical movement when the level of water changes.

DOUBLE FUNCTION
The air release/vacuum valve has a double function:
- exhaust of large volumes of air on the start-up of the system, when pipelines are filled
- intake of large volumes of air on shut-off of the system, when pipeline are drained.

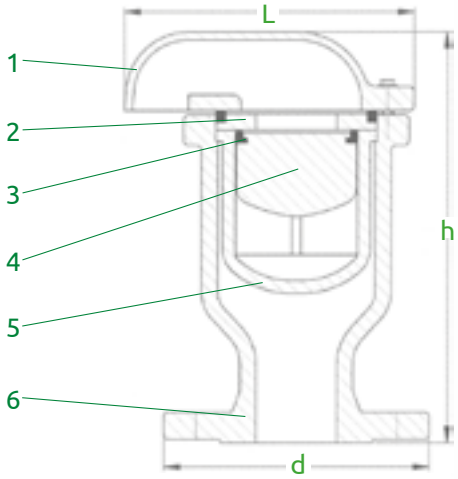
Note: This valve is not suitable for discharge of small quantities of air. To this purpose, please refer to other valves in our range (AR1 or AD1).

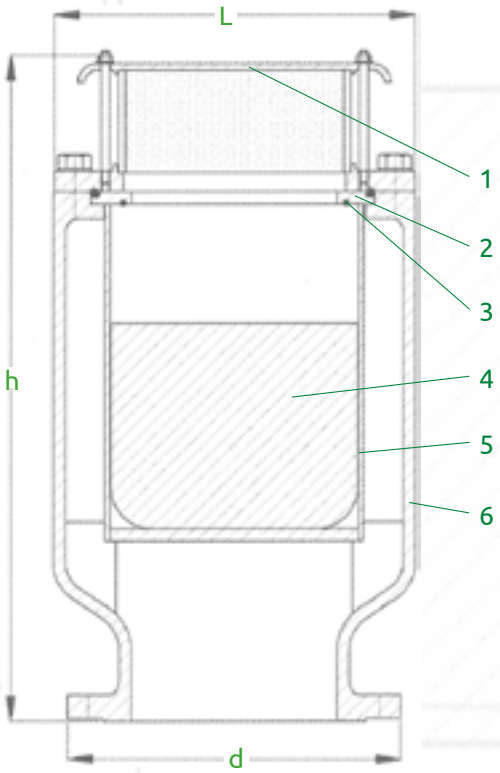
AV1 Air release / vacuum valves
Single chamber - Double function

FAMAT
ENGINEERED VALVES

Appl. Standard	:	AWWA C512
Pressure class	:	PN 10 / 16 / 25 / 40
End flanges	:	EN 1092-2 PN 10 / 16 / 25 / 40 (ASME #150 / #300)
Testing	:	AWWA C512 / EN 12266-1

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.





1 COVER : GGG 40-50 / WCB / SS316 / Al-Bz
2 DISC : Brass / SS410 / SS316 / Al-Br
3 SEAL : EPDM / NBR
4 Float : Ø 40-150mm: Foamed Polypropylene / SS316
Ø 200-500mm: Polyethylene
5 CAGE : Polyamide 6 / SS316
6 BODY : GGG 40-50 / WCB / SS316 / Al-Bz

Overall dimensions (in mm) - PN16

SIZE	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	20"
DN	40	50	65	80	100	125	150	200	250	300	350	400	500
h	255	260	260	260	320	320	320	450	810	975	1065	1220	1525
d	150	165	185	200	220	250	285	340	405	460	520	580	715
L	180	180	180	180	265	265	265	345	440	525	615	700	880

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

AD Combination air valves

Double chamber - Triple function: AD1

1. SEALING
When the water level increases, the float rises and pushes against the sealing, which closes the valve when the air has been exhausted. When the level drops the float drops too, permitting intake of large volumes of air into the system.

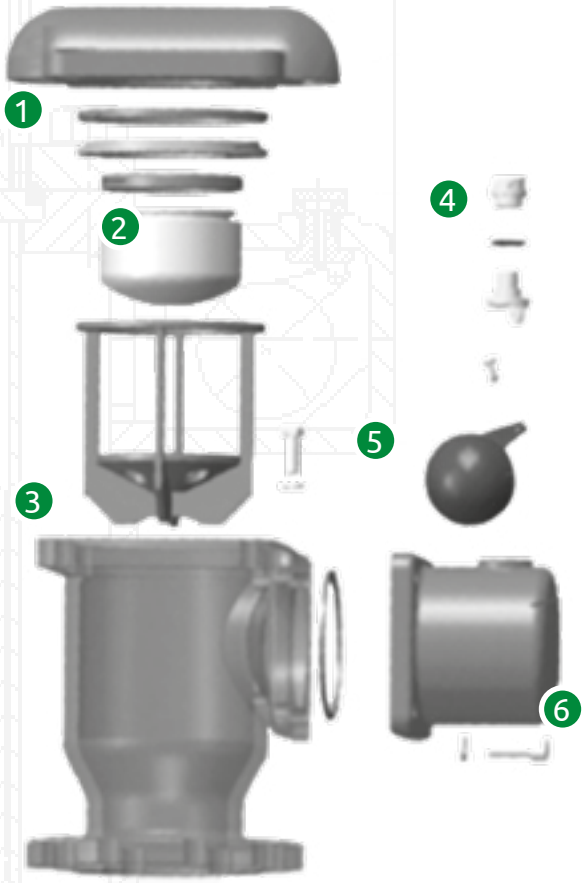
2. FLOAT
Thanks to the design of the valve, the float remains stable during air intake/discharge, preventing undesired closing of the valve.

3. CAGE GUIDE
The float is fully guided by the cage, which permits vertical movement when the level of water changes.

4. ORIFICE
The valve has a precision orifice (1.5 - 5mm) to release air pockets under pressure, during pipeline operation.

5. AIR RELEASE FLOAT
Thanks to the design of the valve, the float remains stable during air intake/discharge, preventing the undesired closing of the valve.

6. SECOND CHAMBER
The FAMAT combination air valve has a second chamber with solid connection to the main one, increasing reliability and performances.



TRIPLE FUNCTION
Combination air valves has triple function:
1. venting of large volumes of air on the start-up of the system, when pipelines are filled
2. intake of large volumes of air during shut-off of the system, when pipeline are drained
3. discharge of small pockets of air during operation.

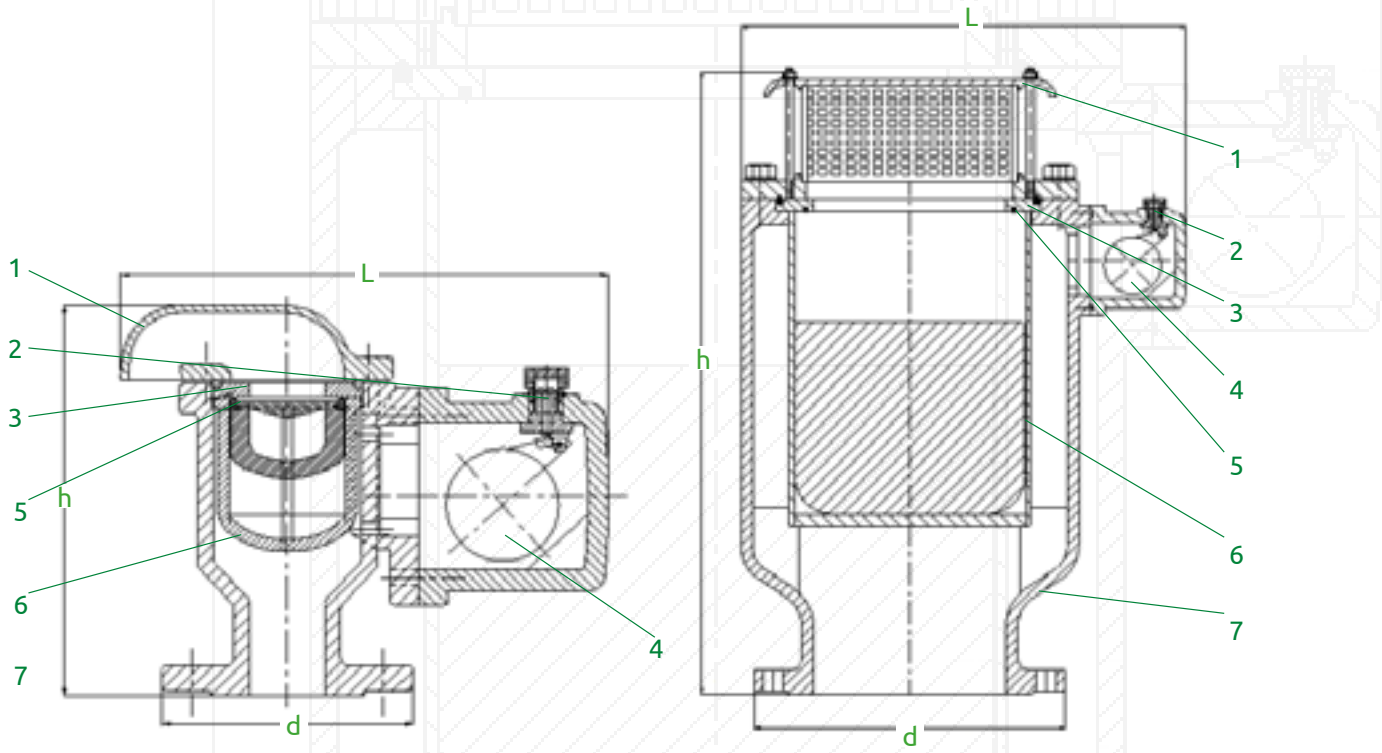
FAMAT
ENGINEERED VALVES

AD1 Combination air valves
Double chamber - Triple function

FAMAT
ENGINEERED VALVES

Appl. Standard	:	AWWA C512
Pressure class	:	PN 10 / 16 / 25 / 40
End flanges	:	EN 1092-2 PN 10 / 16 / 25 / 40 (ASME #150 / #300)
Testing	:	AWWA C512 / EN 12266-1

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



1 COVER : GGG 40-50 / WCB / SS316 / Al-Bz
2 ORIFICE : SS316
3 DISC : Brass / SS410 / SS316 / Al-Br
4 Float : Ø 40-150mm: Foamed Polypropylene / SS316
Ø 200-500mm: Polyethylene
5 SEALS : EPDM / NBR
6 CAGE : Polyamide 6 / SS316
7 BODY : GGG 40-50 / WCB / SS316 / Al-Bz

Overall dimensions (in mm) - PN16

SIZE	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	20"
DN	40	50	65	80	100	125	150	200	250	300	350	400	500
h	255	260	260	260	320	320	320	450	810	975	1065	1220	1525
d	150	165	185	200	220	250	285	340	405	460	520	580	715
L	325	325	325	325	370	370	370	370	580	700	880	910	1135

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

AS Sewage air valves

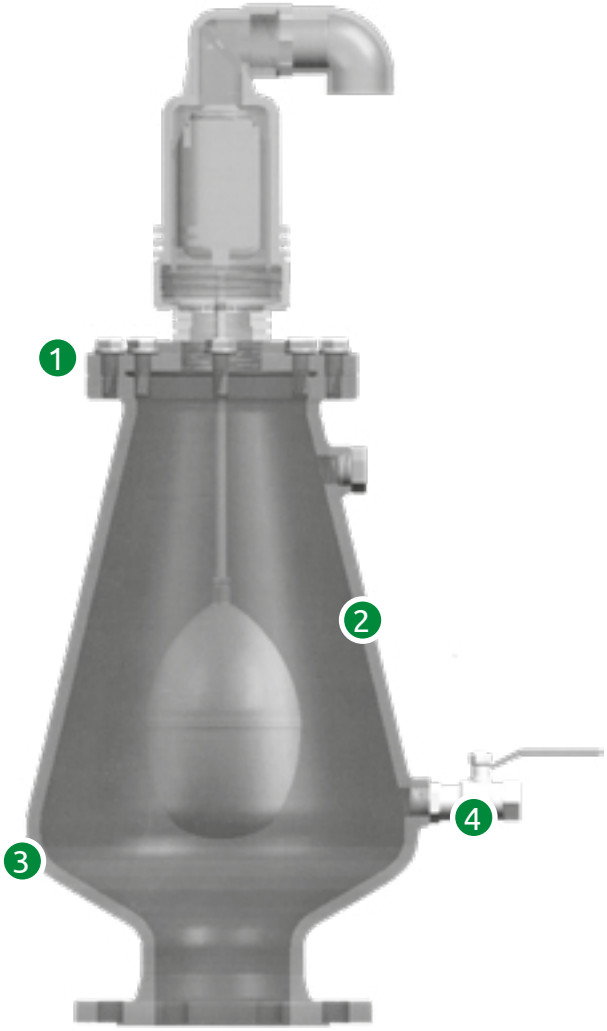
Single chamber - Triple function: AS1

1. SEALING
When there is an increase in water level, the float rises and pushes against the sealing which closes the valve. When the level drops, large volumes of air are captured into the system. The mechanism open also in case of small pockets of air.

2. AIR CHAMBER
The sewage air valve is designed to guarantee complete separation of the liquid from the sealing mechanism.

3. BOTTOM FUNNEL DESIGN
The funnel design of the body allows residual sewage to sink to the bottom of the valve, so that it can be carried by the main line to prevent plugging.

4. FLUSHING
The ball valve at the bottom of the body allows flushing of valve body.



TRIPLE FUNCTION
Sewage air valves has triple function:
1. venting of large volumes of air on the start-up of the system, when pipelines are filled
2. intake of large volumes of air during shut-off of the system, when pipeline are drained
3. discharge of small pockets of air during operation.

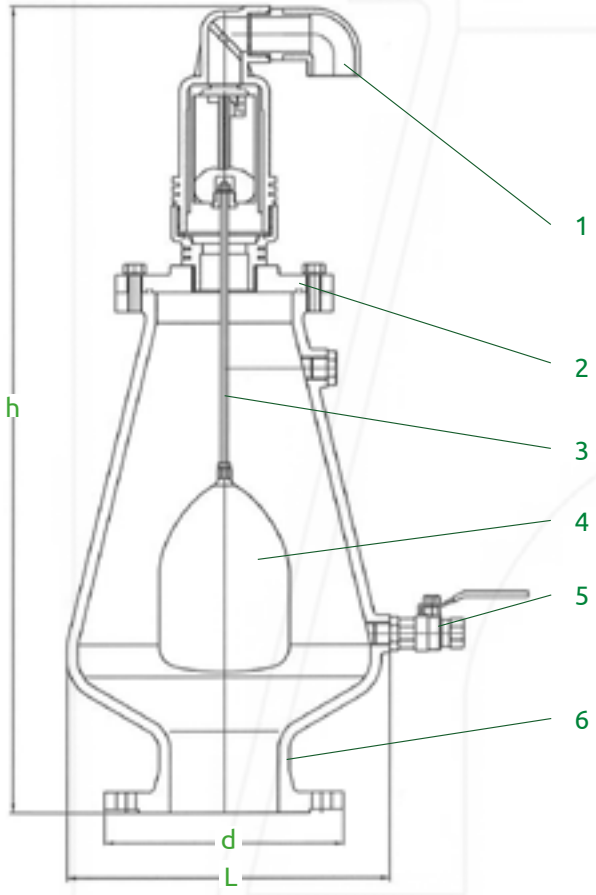
FAMAT
ENGINEERED VALVES

AS1 Sewage air valves
Single chamber - Triple function

FAMAT
ENGINEERED VALVES

Appl. Standard	:	AWWA C512
Pressure class	:	PN 10 / 16 / 25
End flanges	:	EN 1092-2 PN 10 / 16 / 25 (ASME #150)
Testing	:	AWWA C512 / EN 12266-1

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



1	OUTLET : PVC	3	STEAM : SS316	5	BALL VALVE : Brass
2	COVER : GGG 40	4	FLOAT : SS316	6	BODY : GGG 40

Overall dimensions (in mm) - PN16

SIZE	2"	3"	4"	6""	8""
DN	50	80	100	150	200
h	733	733	733	733	733
d	165	200	220	285	340
L	366	366	366	366	366

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

FH Fire hydrants and FG Gate Valves for FH

Fire hydrants: FH1 and FH2
Gate valves for fire hydrants: FG7 and FG9

Our fire hydrants are UL and FM approved.
Our gate valves for fire hydrants are UL approved.

UL LISTED

FM APPROVED

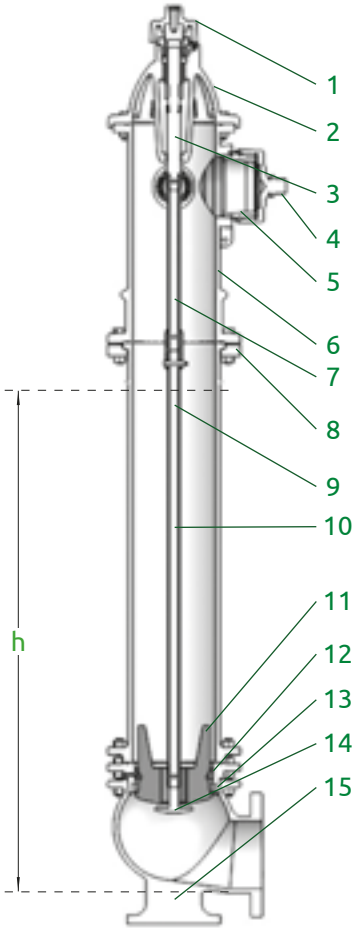
FAMAT
ENGINEERED VALVES

FH1 Fire Hydrant - Flanged Inlet
FH2 Fire Hydrant - Mechanical Joint Inlet

FAMAT
ENGINEERED VALVES

Appl. Standard	:	AWWA C512
Pressure class	:	PN 10 / 16 / 25
End flanges	:	EN 1092-2 PN 10 / 16 / 25 (ASME #150)
Testing	:	AWWA C512 / EN 12266-1

Standard coating : Fusion Bonded Epoxy (FBE) 250-500 mμ – red (RAL 3000).
Other special coating on demand.



1 OPERATING CAP: Ductile Iron ASTM A536 65-45-12
2 BONNET: Ductile Iron ASTM A536 65-45-12
3 STEM: SS304
4 3 NOZZLE CAPS: Ductile Iron ASTM A536 65-45-12
5 3 OUTLETS: Bronze ASTM B584
6 UPPER BARREL: Ductile Iron ASTM A536 65-45-12
7 UPPER STEM: Steel ASTM A29M 1020 PLATED
8 BREAKABLE FLANGE: ASTM A126-B
9 LOWER STEM: Steel ASTM A29M 1020 PLATED
10 LOWERBARREL: Ductile Iron ASTM A536 65-45-12
11 MAIN VALVE: Ductile Iron ASTM A536 65-45-12 + EPDM
12 VALVE SEAT: Bronze ASTM B584
13 SEAL RING: Bronze ASTM B584
14 DRAIN STEM: SS304
15 BASE: Ductile Iron ASTM A536 65-45-12

Overall dimensions (in mm)

h (inches)	h (mm)	Approx. weight (Kg)
3'0"	914.4	170
3'6"	1066.8	178
3'9"	1143.0	181
4'0"	1219.2	183
4'6"	1371.6	196
5'0"	1524.0	200
5'6"	1676.4	210
6'0"	1828.0	215

FH1

FH2

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

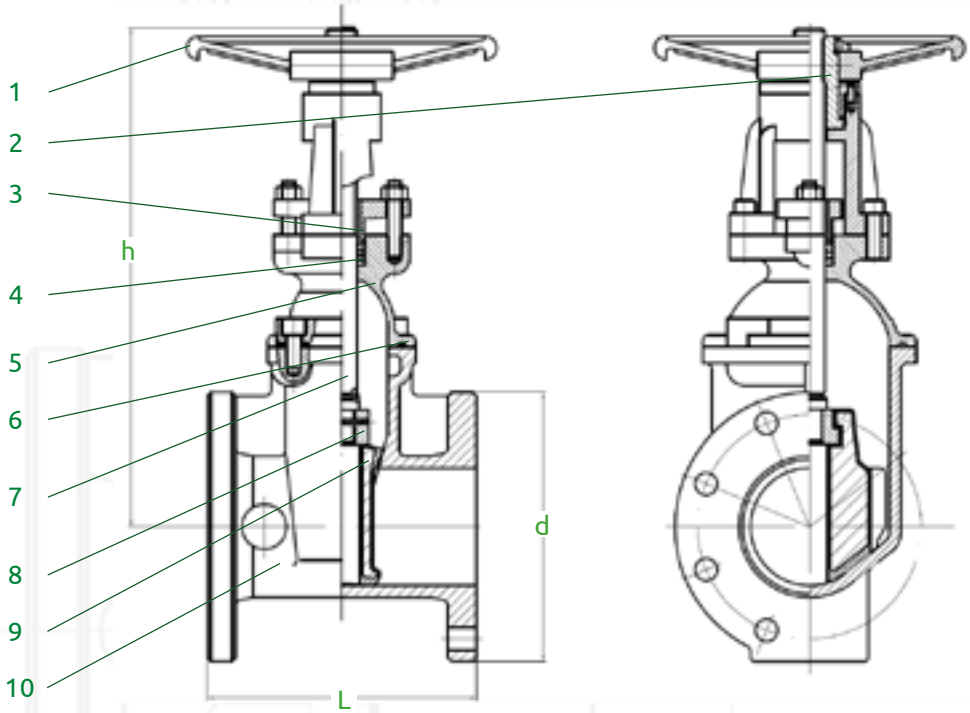
FG7 Gate valves for fire hydrants FH1 (Flanged Inlet) Rising stem

FAMAT
ENGINEERED VALVES

Appl. Standard	:	UL262 / AWWA C509
Pressure class	:	250 psi: all / 300 psi: all except 12", 14" and 16"
End flanges	:	ANSI B16.1 Class 125
Face to face	:	ANSI B16.10
Testing	:	EN 12266-1 / API 598

Standard coating : Fusion Bonded Epoxy (FBE) 250-500 mμ – red (RAL 3016)

Other special coating on demand.



1	HANDWHEEL : ASTM A536 65-45-12	5	BONNET : ASTM A536 65-45-12	9	WEDGE : ASTM A536 65-45-12 + EPDM
2	STEM NUT : ASTM B584	6	BONNET GASKET : EPDM ASTM D2000	10	BODY : ASTM A536 65-45-12
3	GLAND BUSHING : ASTM B584	7	STEM : SS304 / C61400		
4	STEM PACKING : EPDM ASTM D2000	8	WEDGE NUT : ASTM B584		

Overall dimensions (in mm)

SIZE	2½"	3"	4"	6"	8"	10"	12"	14"	16"
DN	65	80	100	150	200	250	300	350	400
h	411	434	462	597	727	891	1020	1219	1288
d	180	190	230	280	345	405	483	533	597
L	190	203	229	267	292	330	356	381	406

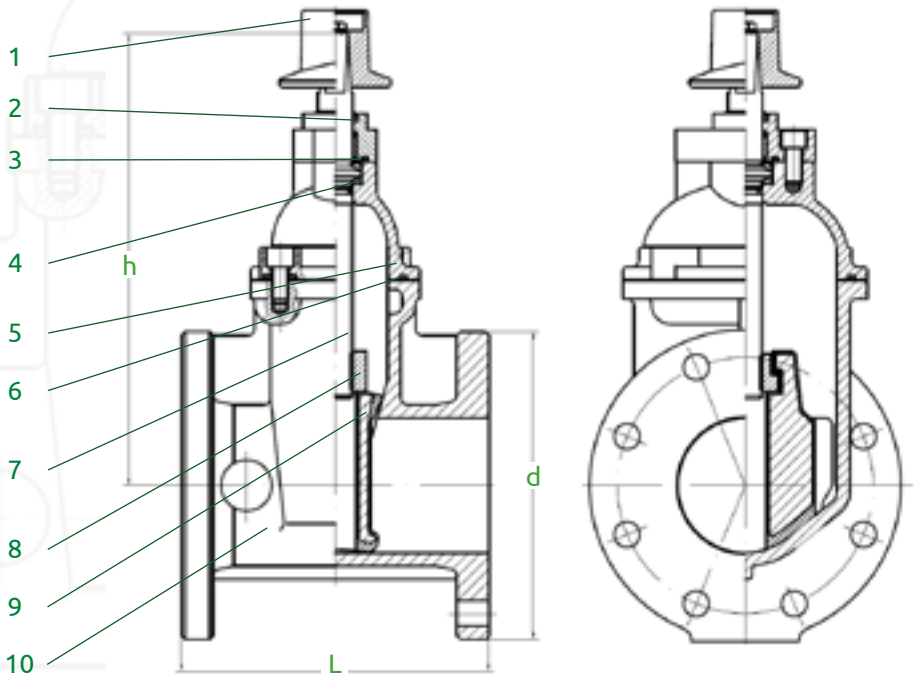
Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

FG9 Gate valves for fire hydrants FH1 (Flanged Inlet) Non-rising stem

FAMAT
ENGINEERED VALVES

Appl. Standard	:	UL262 / AWWA C509
Pressure class	:	250 psi: all / 300 psi: all except 12", 14" and 16"
End flanges	:	ANSI B16.1 Class 125
Face to face	:	ANSI B16.10
Testing	:	EN 12266-1 / API 598

Standard coating : Fusion Bonded Epoxy (FBE) 250-500 mμ – red (RAL 3016)
Other special coating on demand.



1 SQUARE CUP : ASTM A126-B
2 DUST RING : EPDM ASTM D2000
3 O-RING : EPDM ASTM D2000
4 HOLDING RING : ASTM B584 C85700
5 BONNET : ASTM A536 65-45-12
6 BONNET GASKET : EPDM ASTM D2000
7 STEM : SS304 / C61400
8 STEM NUT : ASTM B584 C83600
9 WEDGE : ASTM A536 65-45-12 + EPDM
10 BODY : ASTM A536 65-45-12

Overall dimensions (in mm)

SIZE	2½"	3"	4"	6"	8"	10"	12"	14"	16"
DN	65	80	100	150	200	250	300	350	400
h	280	310	343	430	511	605	700	824	854
d	178	191	229	279	343	406	483	533	597
L	190	203	229	267	292	330	356	381	406

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

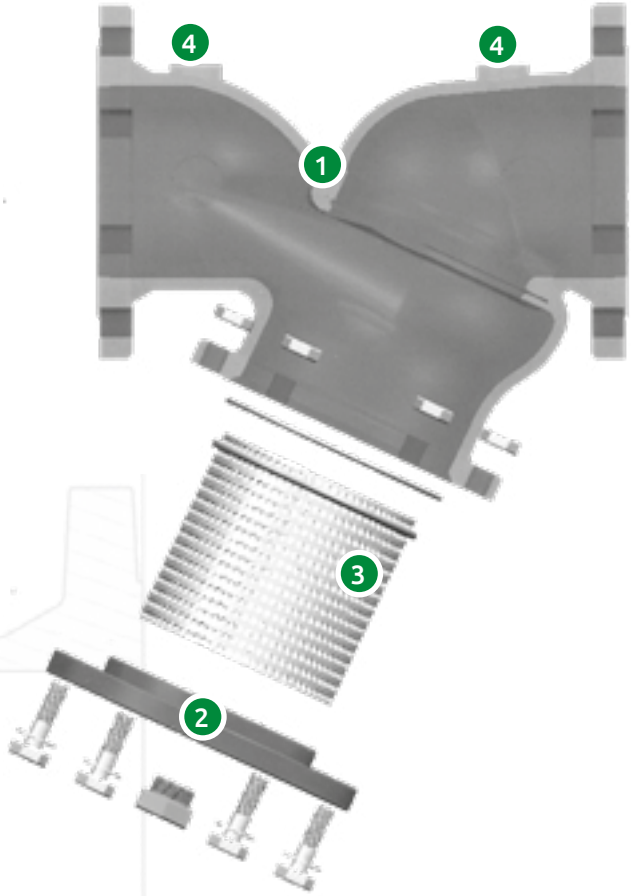
YS Y-type strainers

1. Y PATTERN
The strainers are designed for the final part of an hydraulic system, and therefore work in condition of quite even laminar flow.
The Y pattern allows low pressure losses.

2. EASY CLEANING
The debris are collected in the filter of the strainer, that needs periodic cleaning.
The cover is easily removed and allows access to the filter, in order to remove it and to re-install it back after the cleaning.

3. MESH SIZE
There are several size of mesh available, following the technical needs and depending on the type of water involved.

4. MANOMETER CONNECTIONS
They are located in the inlet and outlet of the body.
If two manometers are connected by them to the valve, the pressure differential gives clear indication of when the cleaning of the filter is required.



FAMAT
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YS1 Y-type strainers

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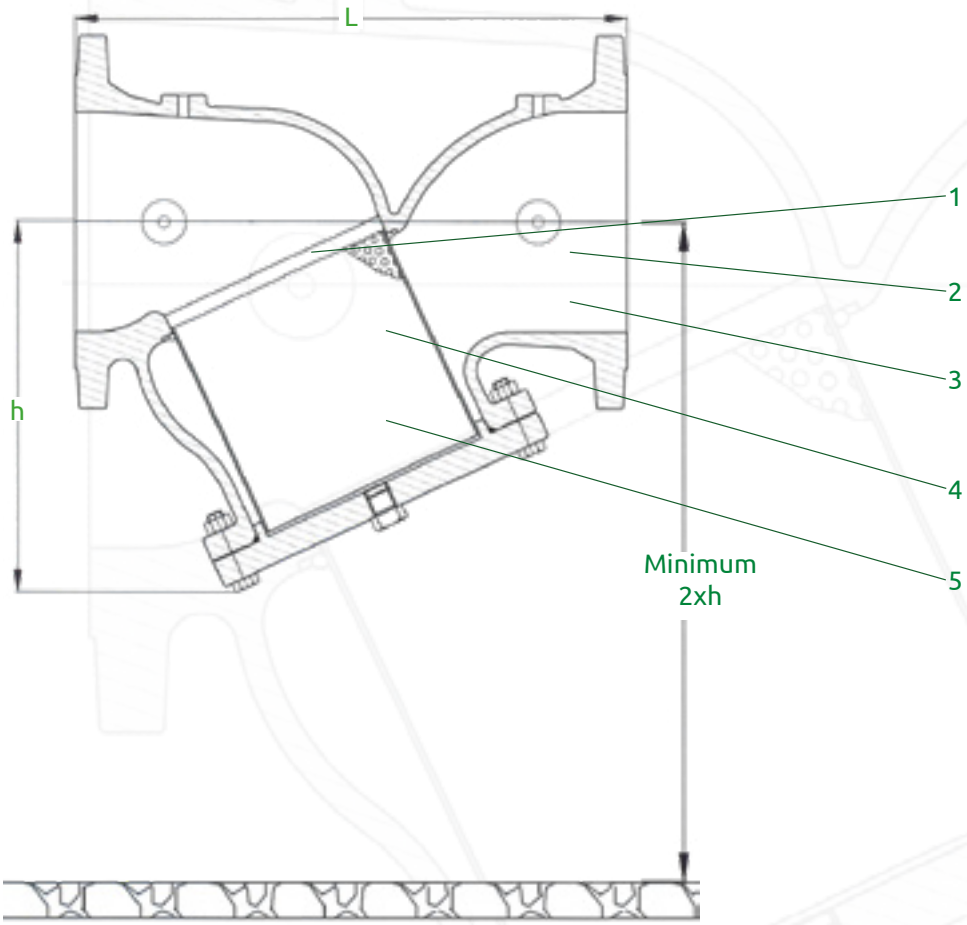
Pressure class	:	PN 10 / 16 / 25 / 40 (ASME #150 / #300)
End flanges	:	EN 1092-2 PN 10 / 16 / 25 / 40 (ASME #150 / #300)
Testing	:	EN 12266-1

Standard coating :
DN 40 - 400: electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
DN 450 - 700: two Pack Liquid Epoxy Blue.

Other special coating on demand.



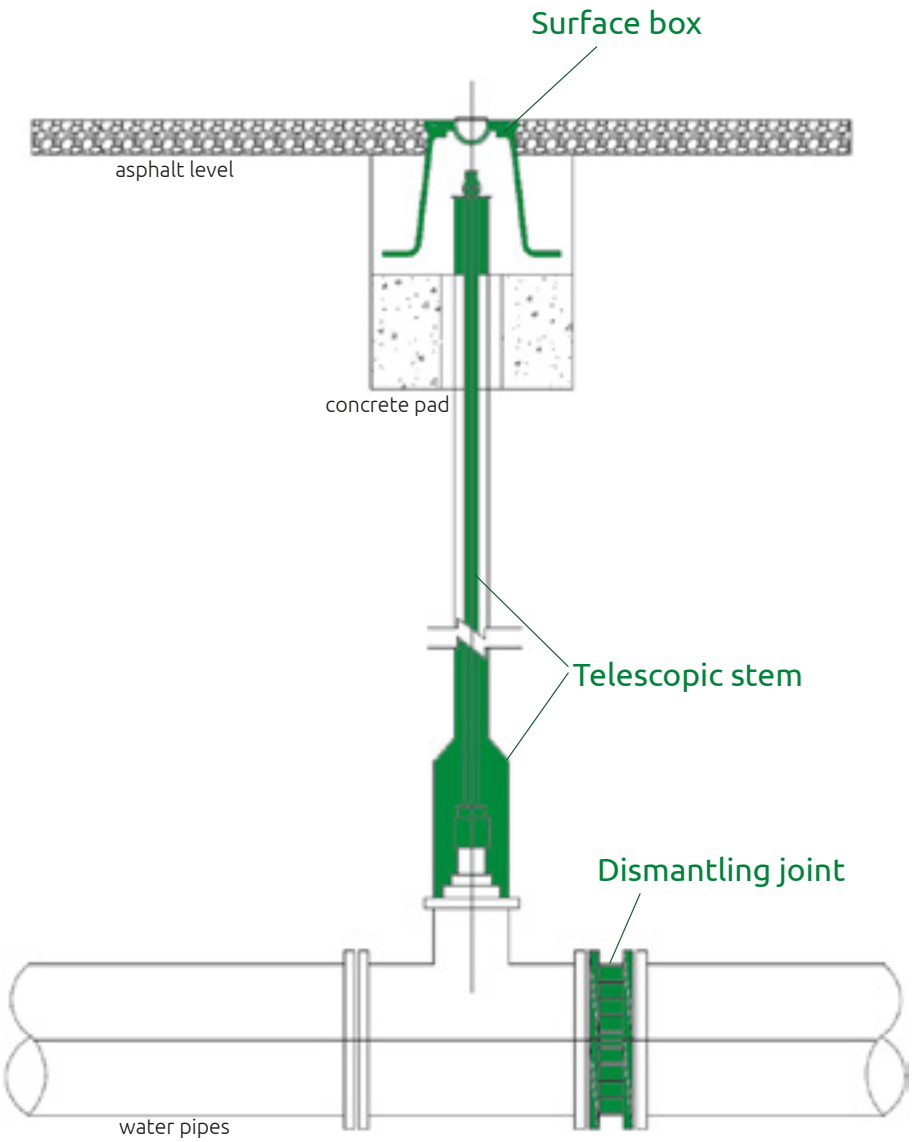
1 FILTER : SS304 / SS316
2 BODY : GGG 40-50 / WCB / SS316 / Al-Bz
3 COVER : GGG 40-50 / WCB / SS316 / Al-Bz
4 O-RING : Buna-N / NBR
5 BLOW OFF PLUG : SS304 / SS316

Overall dimensions (in mm) - PN16

SIZE	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"
DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
h	123	125	125	170	210	210	280	340	410	475	475	630	630	630	954	1157
L	205	210	222	250	320	335	415	500	605	725	733	1000	1000	1100	1300	1500

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

Accessories



FAMAT supplies also a full range of accessories:


Elbows


Flange adaptors


Flexible couplings


Telescopic stems


Fixed stems


Surface boxex

FAMAT
ENGINEERED VALVES

DJ1 Dismantling joints

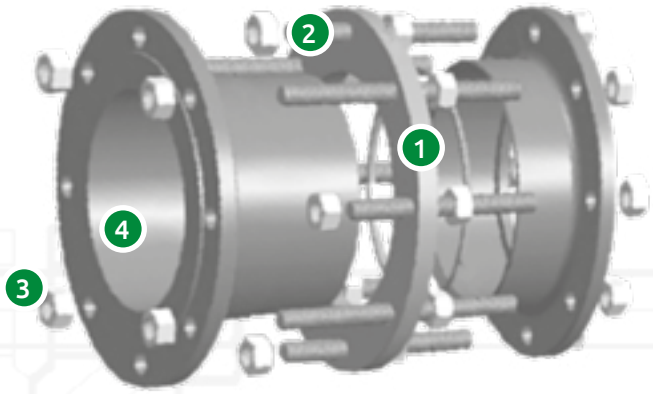
FAMAT
ENGINEERED VALVES

1. MAINTENANCE AND MODIFICATIONS
The dismantling joint accommodates longitudinal adjustment and allows easy and quick maintenance and/or modifications of the pipe/pump/valve systems.

2. TIE BARS
Once adjusted to the required length, the dismantling joint is locked by means of the tie bars. While blocking the length of the dismantling joint, the threaded tie-bars also transfer the forces taking place on one side of the joint to the other side.

3. FLANGES
The flanges provide a full-flange sealing area for coupling with wafer and butterfly valves or for other cases where a full-face flange is required.

4. COATING
Upon request, the dismantling joints can be supplied with approval for potable water (epoxy coating).



MAIN APPLICATIONS
- pumping stations
- water treatment systems
- sewage treatment system
- plant rooms
- meter chambers

FAMAT offers a large range of dismantling joint customizing:
- size (up to 3300 mm)
- flanges
- pressure rating
- special liners

DJ1 Dismantling joints

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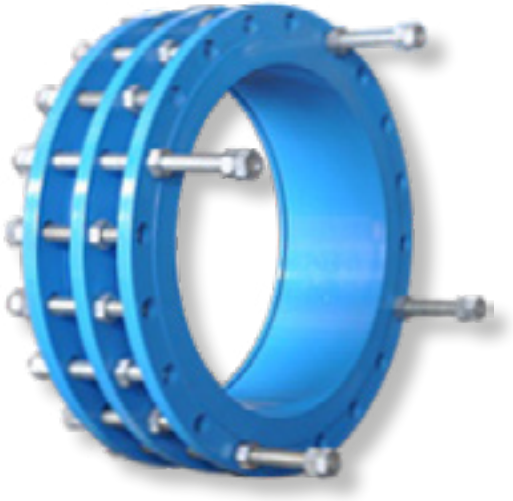
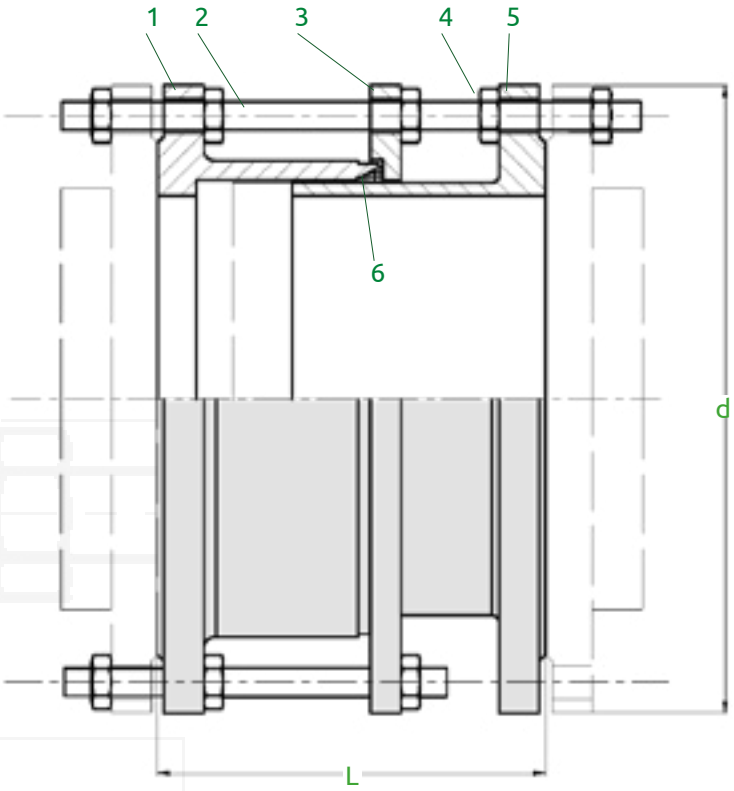
ENGINEERED VALVES



Pressure class	:	PN 6 / 10 / 16 (ASME #150)
End flanges	:	EN 1092-2 PN 6 / 10 / 16 (ASME #150)
Testing	:	EN 12266-1

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



1 BODY : Ductile Iron / S235JR (depending on size)
2 TIE BARS : St37-2 galvanized / SS304 / SS316 / SS316L
3 PLATE : Ductile Iron / S235JR
4 NUT : SS316L
5 COVER : Ductile Iron / S235JR
6 SEAL : EPDM

Overall dimensions (in mm) - PN16

SIZE	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	100	150	200	250	300	350	400	450	500	600
d	220	285	340	405	460	520	580	640	715	840
L	200	200	220	230	250	260	270	270	280	300

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

FA1 Flange adaptors

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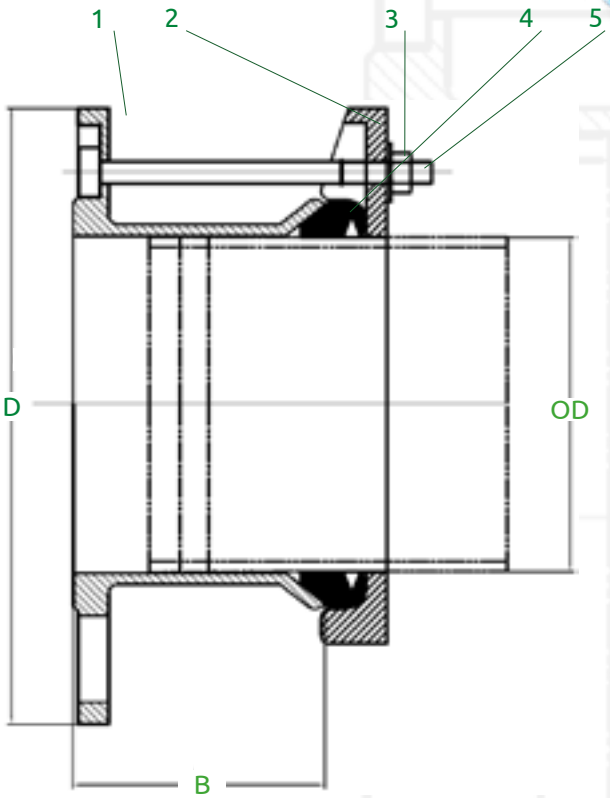
ENGINEERED VALVES

Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



1 BODY : GGG 40-50
2 SEAL RING : EPDM
3 COVER : GGG 40-50
4 NUT : St37-2 galvanized / SS304 / SS316 / SS316L
5 BOLT : St37-2 galvanized / SS304 / SS316 / SS316L

Overall dimensions (in mm) - PN16								
SIZE	**2"**	**2 ½"**	**3"**	**4"**	**5"**	**6"**	**7"**	**8"**
DN	**50**	**65**	**80**	**100**	**125**	**150**	**175**	**200**
OD range	59-72	72-85	88-103	109-128	132-146	159-182	192-210	218-235
Bolt q.ty	2	2	4	4	4	4	4	4
D	192	190	216	225	288	288	345	345
B	78	78	78	78	78	78	78	78

Overall dimensions (in mm) - PN16								
SIZE	**10"**	**12"**	**14"**	**16"**	**18"**	**20"**	**24"**	**24"**
DN	**250**	**300**	**350**	**400**	**450**	**500**	**600**	**600**
OD range	272-289	315-332	374-391	400-429	476-493	500-532	600-630	630-647
Bolt q.ty	6	6	8	8	10	10	10	10
D	455	455	520	580	640	715	840	840
B	85	85	108	108	108	114	114	114

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

FC1 Flexible Couplings

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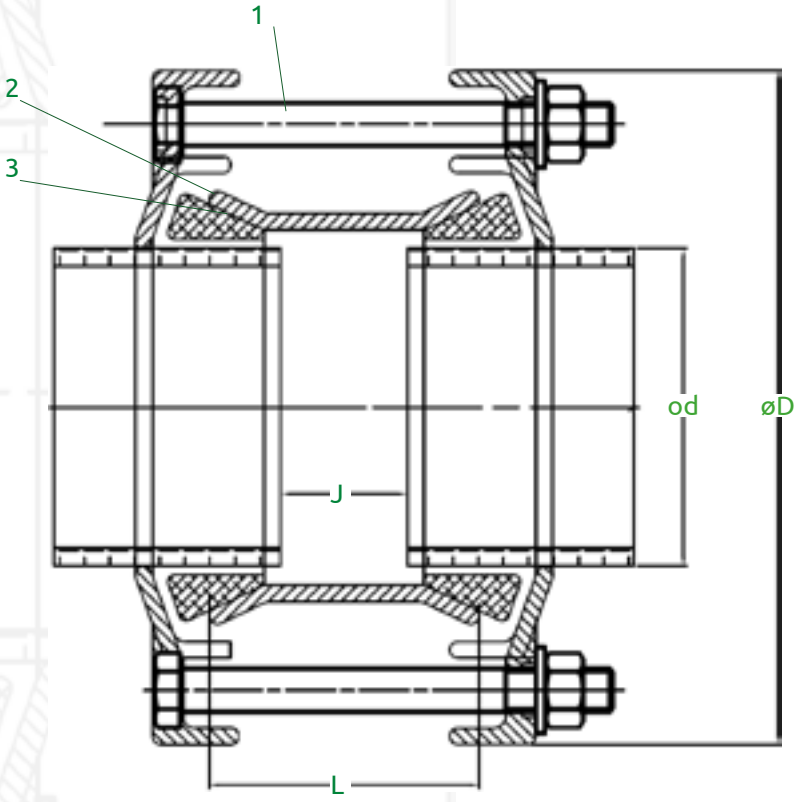
Standard coating : Electrostatic Fusion Bonded Epoxy (FBE) 150-300 mμ – Blue.
Other special coating on demand.



Note: please contact us for any size larger than 400

1 BOLT, NUT & WASHER : St37-2 galvanized / SS304 / SS316 / SS316L

2 BODY : GGG 40-50

3 SEAL RING : EPDM

Overall dimensions (in mm) - PN16

SIZE	2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"
DN	**50**	**65**	**80**	**100**	**150**	**200**	**250**	**300**	**350**	**400**
OD min.	47	68	84	108	153	184	246	305	360	408
OD max.	60	85	106	130	175	207	270	326	386	435
J min.	10	10	10	10	10	10	10	10	10	10
J max.	40	45	45	45	45	70	90	70	70	70
L	100	106	106	106	106	130	150	130	130	130
øD	169	207	224	250	304	330	394	459	510	559

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.
Other materials, dimensions and configurations are available on demand.

TS1 Telescopic Stem

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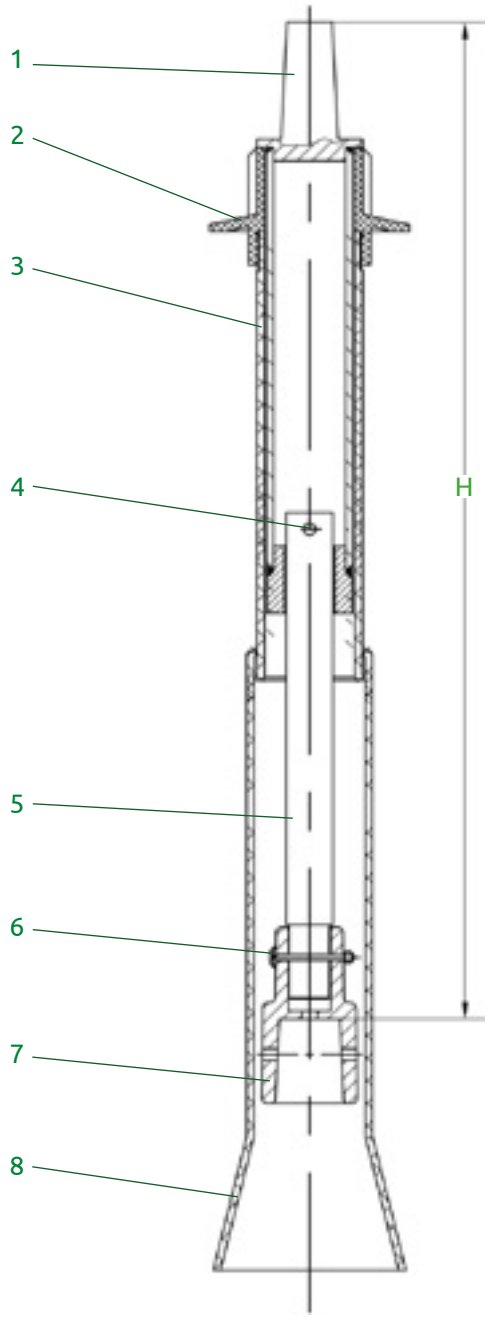

1	STEM SQUARE HEAD : Carbon Steel	
2	ROOF COVER : PP	
3	UPPER DUSTPROOF PIPE : PVC	
4	PIN : 65Mn	
5	SQUARE SHAFT : Carbon Steel	
6	SPLIT PIN : 1Cr18Ni9Ti	
7	ADAPTER : GGG50	
8	LOWER DUSTPROOF PIPE : PVC	

Overall dimensions (in mm)

SIZE	1200 to 1500	1500 to 2200	2000 to 3200	2800 to 4000

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.

SB1 Surface Box

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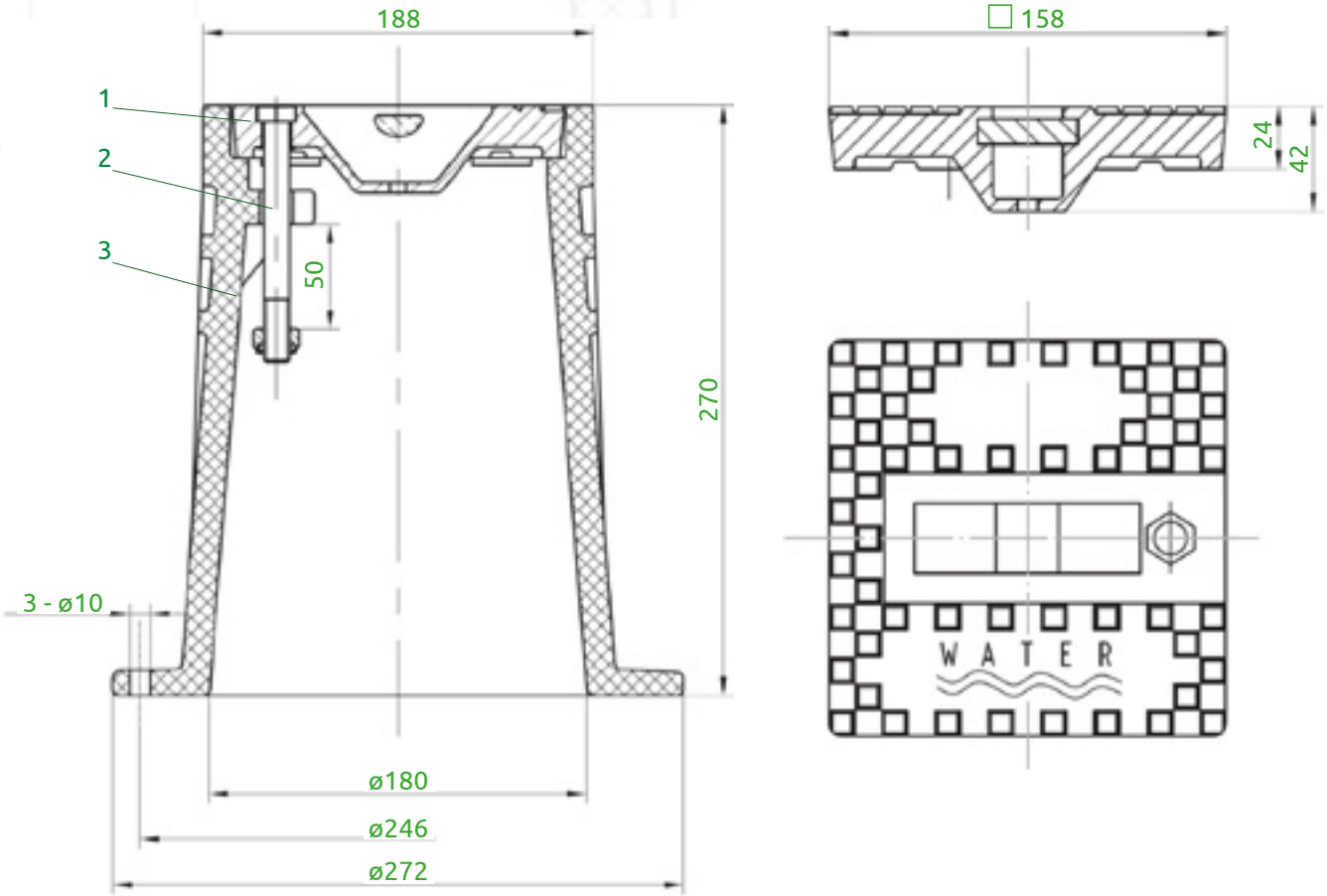


1 COVER : GGG50

2 BOLT : A2-70 (type 304)

3 BOX : GGG50

Design and dimension are subject to change without notice, except for the dimensions established by International Standard Codes.

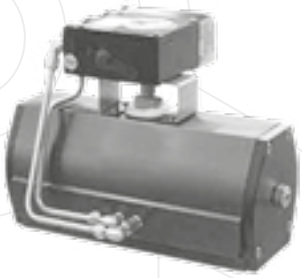
Actuators

ELECTRIC ACTUATOR

An electric actuator provides a stem force output for a variety of process applications by using electricity as power source.
This actuator suit most common applications.

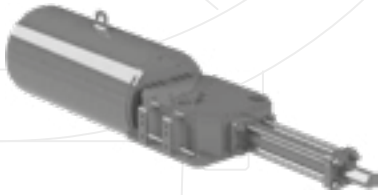
PNEUMATIC ACTUATOR

Pneumatic actuator provides high stem force output for demanding service conditions.
Several options are available for quarter turn valves or linear valve (piston or diaphragm). Double acting or single acting (fail safe) options are also available.



HYDRAULIC ACTUATOR

A hydraulic actuator consists of cylinder or fluid motor that uses hydraulic power to facilitate mechanical operation.
The mechanical motion gives an output in terms of linear, rotatory or oscillatory motion.
As liquids are nearly impossible to compress, a hydraulic actuator can exert a large force. The drawback of this approach is its limited acceleration.

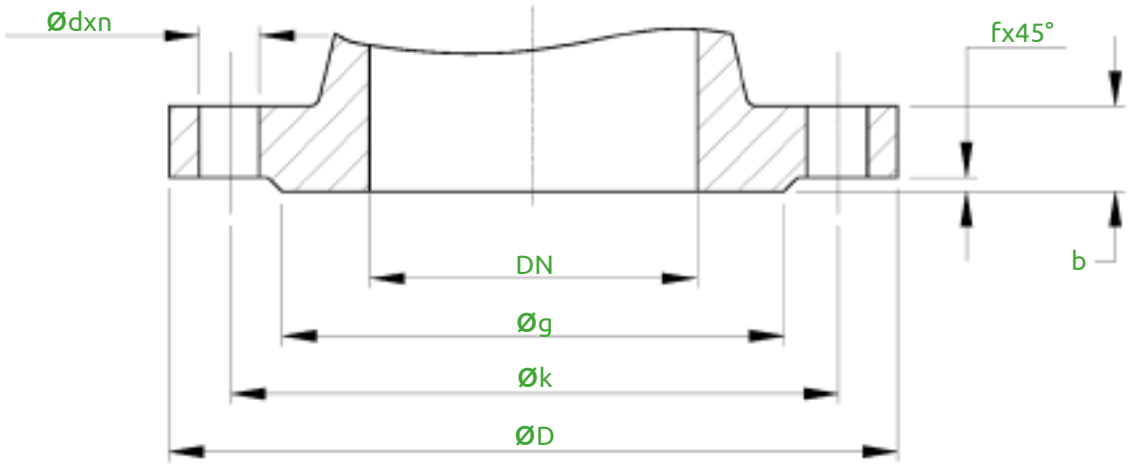


SPECIAL ACTUATION SOLUTIONS

FAMAT develops custom made solutions to fit special technical needs.
Electro-pneumatic, electro-hydraulic, manual override actuators are only some example of the solutions we can provide.

FAMAT
ENGINEERED VALVES

Flange dimensions



FLANGE STANDARD EN 1092-2 (mm)

ISO PN 10																			
DN	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**	**600**	**700**	**800**	**900**	**1000**
øD	150	165	185	200	220	250	285	340	395	445	505	565	615	670	780	895	1015	1115	1230
øk	110	125	145	160	180	210	240	295	350	400	460	515	565	620	725	840	950	1050	1160
øg	84	99	118	132	156	184	211	266	319	370	429	480	530	582	682	794	901	1001	1112
b	19	19	19	19	19	19	19	20	22	24.5	24.5	24.5	25.5	26.5	30	32.5	35	37.5	40
f	3	3	3	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5
ødxn	19x4	19x4	19x4	19x8	19x8	19x8	23x8	23x8	23x12	23x12	23x16	28x16	28x20	28x20	31x20	31x24	34x24	34x28	37x28

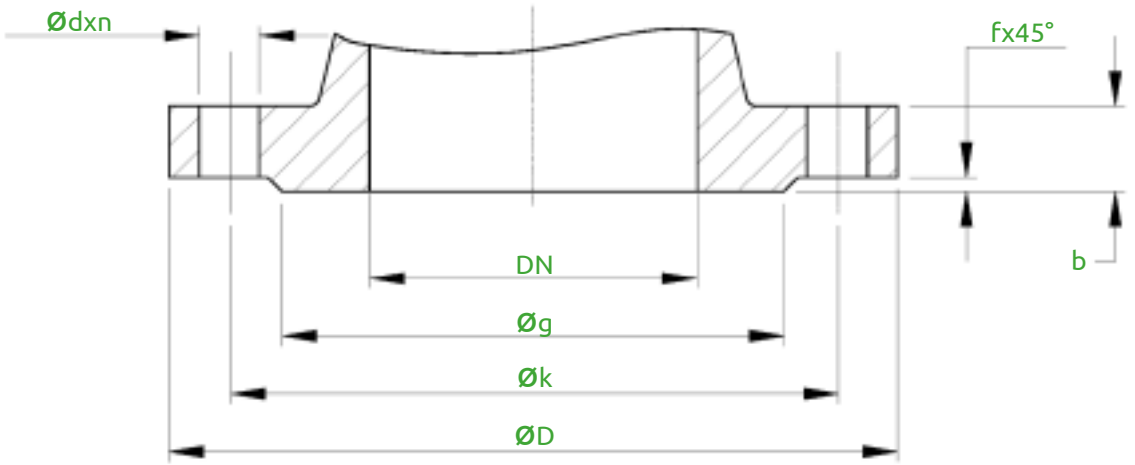
ISO PN 16																			
DN	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**	**600**	**700**	**800**	**900**	**1000**
øD	150	165	185	200	220	250	285	340	405	460	520	580	640	715	840	910	1025	1125	1255
øk	110	125	145	160	180	210	240	295	355	410	470	525	585	650	770	840	950	1050	1170
øg	84	99	118	132	156	184	211	266	319	370	429	480	548	609	720	794	901	1001	1112
b	19	19	19	19	19	19	19	20	22	24.5	26.5	28	30	31.5	36	39.5	43	46.5	50
f	3	3	3	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5
ødxn	19x4	19x4	19x4	19x8	19x8	19x8	23x8	23x12	28x12	28x12	28x16	31x16	31x20	34x20	37x20	37x24	41x24	41x28	44x28

ISO PN 25																			
DN	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**	**600**	**700**	**800**	**900**	**1000**
øD	150	165	185	200	235	270	300	360	425	485	555	620	670	730	845	960	1085	1185	1320
øk	110	125	145	160	190	220	250	310	370	430	490	550	600	660	770	875	990	1090	1210
øg	84	99	118	132	156	184	211	274	330	389	448	503	548	609	720	820	928	1028	1140
b	19	19	19	19	19	19	20	22	24.5	27.5	30	32	34.5	36.5	42	46.5	51	55.5	60
f	3	3	3	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5
ødxn	19x4	19x4	19x8	19x8	23x8	28x8	28x8	28x12	31x12	31x16	34x16	37x16	37x20	37x20	41x20	44x24	50x24	50x28	57x28

ISO PN 40															
DN	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**	**600**
øD	150	165	185	200	235	270	300	375	450	515	580	660	685	755	890
øk	110	125	145	160	190	220	250	320	385	450	510	585	610	670	795
øg	84	99	118	132	156	184	211	284	345	409	465	535	560	615	735
b	19	19	19	19	19	23.5	26	30	34.5	39.5	44	48	49	52	58
f	3	3	3	3	3	3	3	3	3	4	4	4	4	4	5
ødxn	19x4	19x4	19x8	19x8	23x8	28x8	28x8	31x12	34x12	34x16	37x16	41x16	41x20	44x20	50x20

FAMAT
ENGINEERED VALVES

Flange dimensions



FLANGE STANDARD ANSI CLASS 150 (mm)

SIZE	1 ½"	2"	2 ½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**	**600**
øD	127	152	178	191	229	254	279	343	406	483	533	597	635	699	813
øk	98	121	140	152	191	216	241	298	362	432	476	540	578	635	749
øg	73	92	105	127	157	186	216	270	324	381	413	470	533	584	692
b	17.5	19.1	23.9	23.9	23.9	23.9	25.4	28.4	30.2	31.8	35.1	36.6	39.6	42.9	47.8
f	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
ødxn	16x4	19x4	19x4	19x4	19x8	22x8	22x8	22x8	25x12	25x12	29x12	29x16	32x16	32x20	35x20

FLANGE STANDARD ANSI CLASS 300 (mm)

SIZE	1 ½"	2"	2 ½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**	**600**
øD	156	165	191	210	254	279	318	381	445	521	584	648	711	775	914
øk	114	127	149	168	200	235	270	330	387	451	514	572	629	686	813
øg	73	92	105	127	157	186	216	270	324	381	413	470	533	584	692
b	20.6	22.4	25.4	28.4	31.8	35.1	36.6	41.1	47.8	50.8	53.8	57.2	60.5	63.5	69.9
f	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
ødxn	19x4	19x8	22x8	22x8	22x8	22x8	22x12	22x12	29x16	32x16	32x20	35x20	35x24	35x24	41x24

Testing

In order to guarantee the highest quality level and to deliver reliable product to our customer, all products are subject to a strict testing procedure.
Unless otherwise required, the standard hydraulic test is performed according to EN 12266-1.

SHELL TEST

This test is performed to guarantee the resistance to pressure of the valve body.
PRESSURE: test pressure is 1.5 times the maximum allowable pressure at room temperature.
DURATION: as per table.

Size (DN)	Minimum test duration (water)	
	Production acceptance test (second)	Type Test (minutes)
Up to DN50	15	10
From DN65 to DN150	60	10
From DN200 to DN 300	120	10
DN 350 and above	300	10

SEAT TIGHTNESS TEST

This test is performed to confirm the capability of the seats to conform to the specified leakage rate.
PRESSURE: test pressure is 1.1 times the maximum allowable pressure at room temperature.
DURATION: as per table.

Size (DN)	Minimum test duration (water)		
	Production acceptance test (second)		Type Test (minutes)
	Metal Seated	Soft Seated	All valves
Up to DN50	15	15	10
From DN65 to DN150	60	15	10
From DN200 to DN 300	120	30	10
DN 350 and above	120	60	10

ACCEPTANCE CRITERIA FOR LEAKAGE RATE

Leakage rate is specified by the product reference standard.

LEAKAGE RATES

FLUID	RATE A	RATE B	RATE C	RATE D	RATE E	RATE F	RATE G
Water	No visual leakage	0.01 X DN	0.03 X DN	0.1 X DN	0.3 X DN	1.0 X DN	2.0 X DN

FAMAT
ENGINEERED VALVES

Custom-made Valves

Large sizes - Special materials - High pressure

FAMAT supplies other valves on demand.
This full range covers all technical needs for water systems.

double flanged sleeve

multijet rotative

needle

fixed cone

FAMAT
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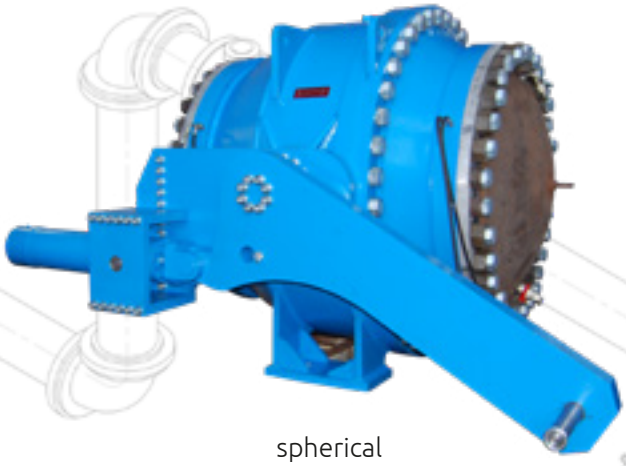
Custom-made Valves

FAMAT supplies other valves on demand.
This full range covers all technical needs for water systems.



spherical

ball

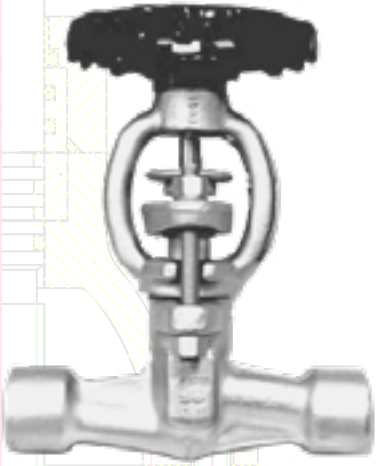
butterfly

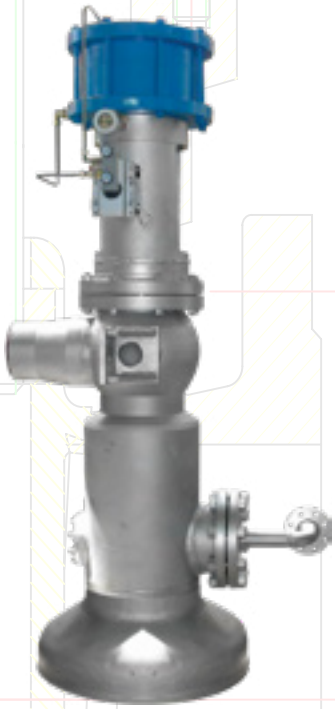
submerged vertical sleeve

FAMAT
ENGINEERED VALVES

Valves for Oil & Gas

We can also supply other valves for oil & gas or steam applications.





FAMAT
ENGINEERED VALVES

Notes

Notes

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ISO 9001/2015

2019-01