STAINLESS STEEL BALL VALVES

Product information

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STAINLESS STEEL BALL VALVES

Two- and three-piece stainless steel ball valves

The strength of Altech ball valves lies in their compact design and their ease of installation, operation and maintenance. The robust design ensures long service life. The ball valves enable full flow with minimal pressure drop when open. The ball valves can be opened and closed with just a quarter turn.

Installation

See separate installation instructions for Altech ball valves under the corresponding item numbers at http://www.rskdatabasen.se/

Application

Altech ball valves are designed for ease of operation by using the handle with no additional tools or intervention. The valves serve simply as shutoff valves and are thus only in the open or closed position. Valves that normally remain unused in one of the two permitted positions should be opened and closed at regular intervals. This should be done at least once every six months.

General remarks

The maximum operating pressure goes down with increasing temperature. The maximum pressure and temperature limits are given in the technical specification.

Authorisations

Altech ball valves are CE marked and type-approved by RISE (Research Institutes of Sweden) for tap water and drinking water. The current approval is specified for each ball valve as the approval requirements may vary between different types of ball valves.

Authorisations

- CE/PED 2014/68/EU
- ATEX 2014/34/EU
- EN15848
- EN13828

Type approval no.: C900773 and C9000774

Approval includes:
Max. operating pressure: 10 bar
Max. water temperature: 65 °C (continuous)
Max. water temperature: 90 °C (peak)

Certified by RISE and approved in accordance with PBL (Swedish Planning and Building Act).
RI. SE 1002

Manufacturer's assurance:
This product has been manufactured in compliance with the type approval and decision on production control and with the documents on which the type approval is based.

CE

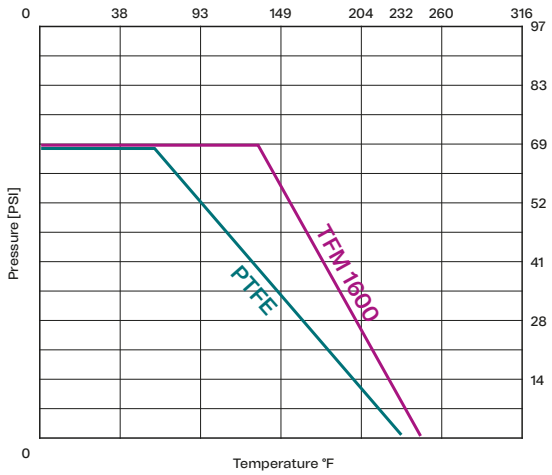
2-piece stainless steel ball valves – 2006SD

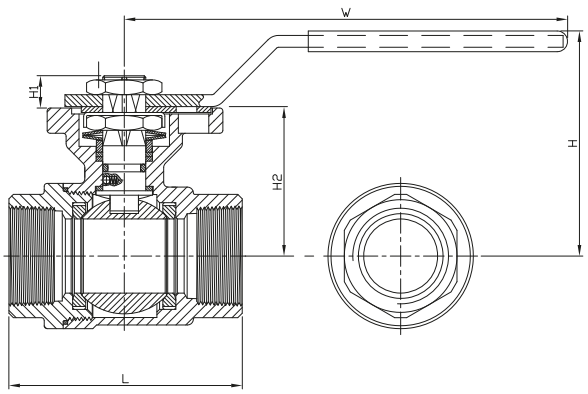
Altech two-piece ball valves with mounting plate in accordance with ISO 5211 and threaded end fittings. Used in water piping systems, in the petroleum and chemical sectors, in power plants and similar sectors. The ball valves can be used in vacuum, down to -0,8 bar.

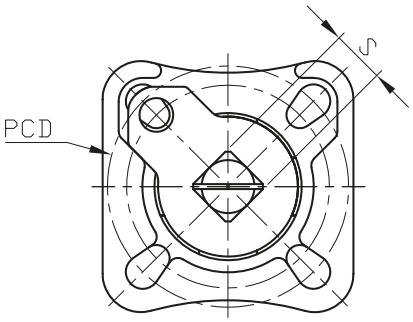
Size range: DN8–DN80.
Pressure class: PN63.
Temperature range: -20 °C–200 °C.

RISE type approval No: C900773.
CE marked in accordance with PED 2014/68/EU.

Pressure/temperature diagram



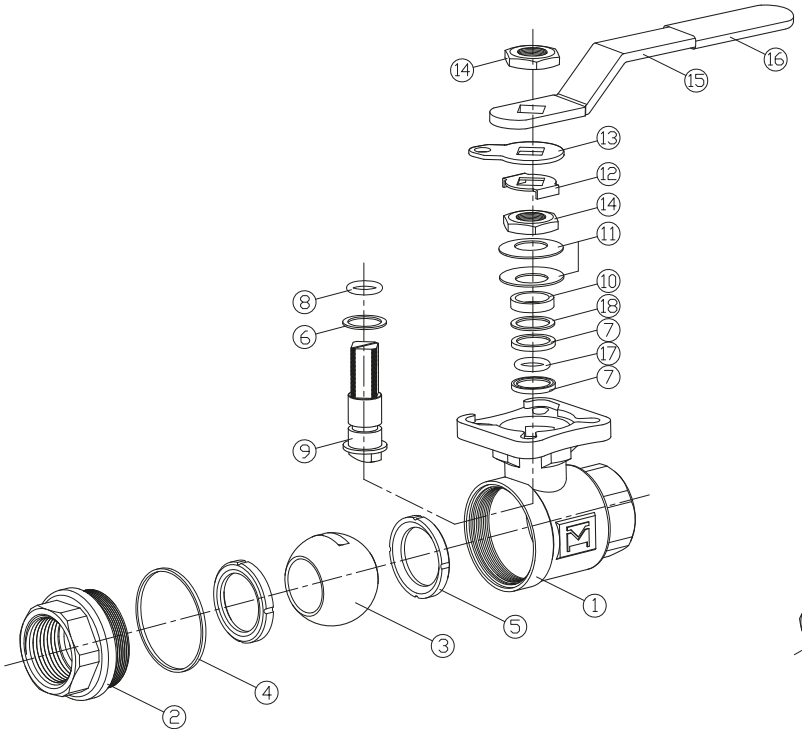




Item No.	DN		L	W	H	H1	H2	S	PCD	Moment	Weight
5496367	8	1/4''	58	114	62	8	37	9	F03/04	7	0,4
5496368	10	3/8''	58	114	62	8	37	9	F03/04	7	0,4
5496335	15	1/2''	58	114	62	8	37	9	F03/04	7	0,4
5496336	20	3/4''	66	114	65	8	40	9	F03/04	9	0,5
5496337	25	1''	79	140	76	12	49	11	F04/05	15	0,8
5496338	32	1 1/4''	90	140	82	12	55	11	F04/05	18	1,2
5496339	40	1 1/2''	105	172	103	12	66	14	F05/07	25	2
5496340	50	2''	124	172	112	11	76	14	F05/07	35	2,9
5496341	65	2 1/2''	146	325	141	17	92	17	F07/10	55	6
5496342	80	3''	164	325	150	17	101	17	F07/10	70	7,2

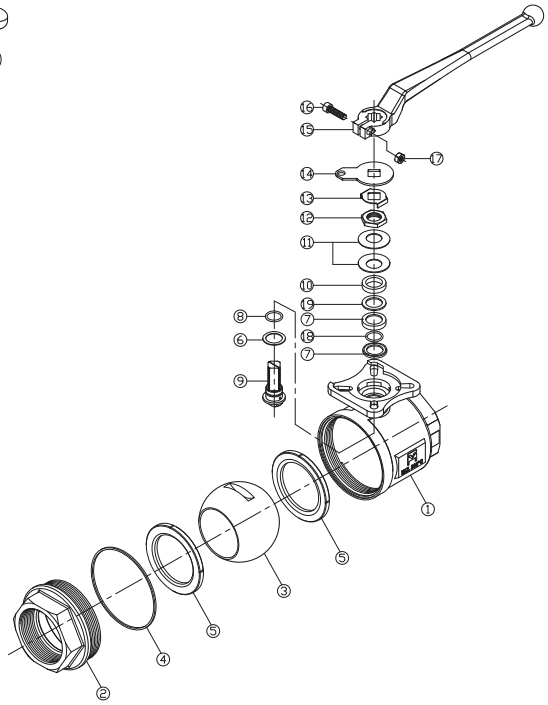
Measurements in mm.
Moments include 30% safety margin.

Dimension DN8–50



Number	Part	Material
1	Valve body	1.4408
2	End fitting	1.4408
2	Ball	SS316
4	Body gasket*	PTFE
5	Ball seat*	TFM 1600
6	Compression washer	PTFE
7	Gasket A*	PTFE
8	O-ring A*	VITON
9	Stem	SS316
10	Gland ring	AISI 304
11	Belleville washer	AISI 301
12	Lock washer	AISI 304
13	Stop washer	AISI 304
14	Stem nut	AISI 304
15	Handle	Stainless steel
16	Handle cover	PVC
17	O-ring B*	VITON
18	Gasket B*	PEEK

Dimension DN65–80



Number	Part	Material
1	Valve body	1.4408
2	End fitting	1.4408
2	Ball	SS316
4	Body gasket*	PTFE
5	Ball seat*	TFM 1600
6	Compression washer	PTFE
7	Gasket A*	PTFE
8	O-ring A*	VITON
9	Stem	SS316
10	Gland ring	AISI 304
11	Belleville washer	AISI 301
12	Stem nut	AISI 304
13	Lock washer	AISI 304
14	Stop washer	AISI 304
15	Handle	Stainless steel
16	Bolt	AISI 304
17	Nut	AISI 304
18	O-ring B*	VITON
19	Gasket B*	PEEK

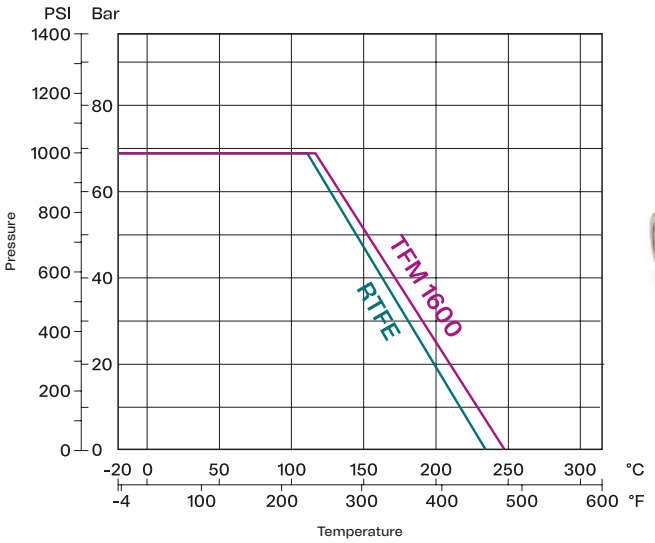
2-piece stainless steel ball valves – 2006SC

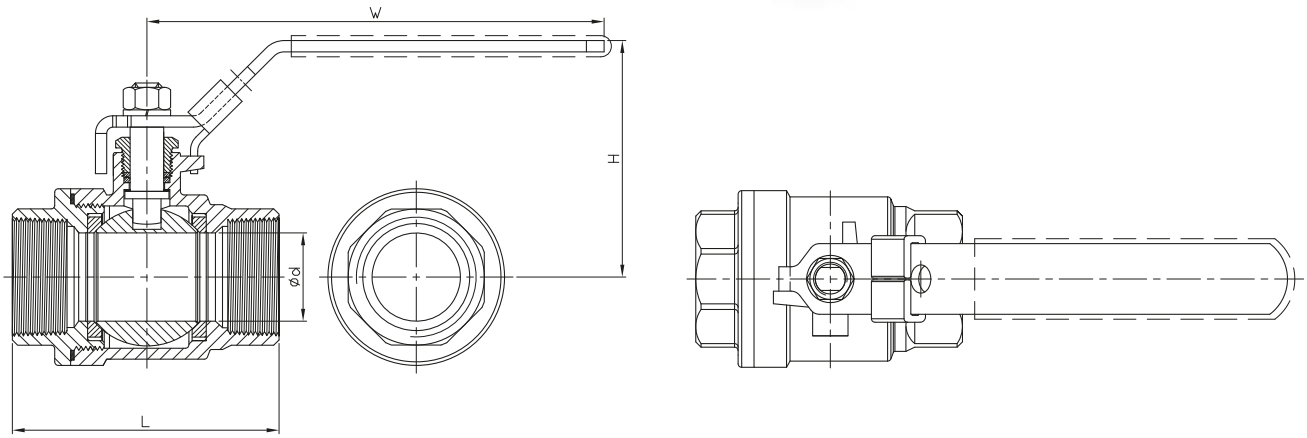
Altech two-piece ball valves with threaded end fittings. Used in piping systems in the petroleum and chemical sectors, in power plants and similar sectors.

Size range: DN8–DN80.
Pressure class: PN63.
Temperature range: -20 °C–200 °C.

RISE type approval No: C900773.
CE marked in accordance with PED 2014/68/EU.

Pressure/temperature diagram

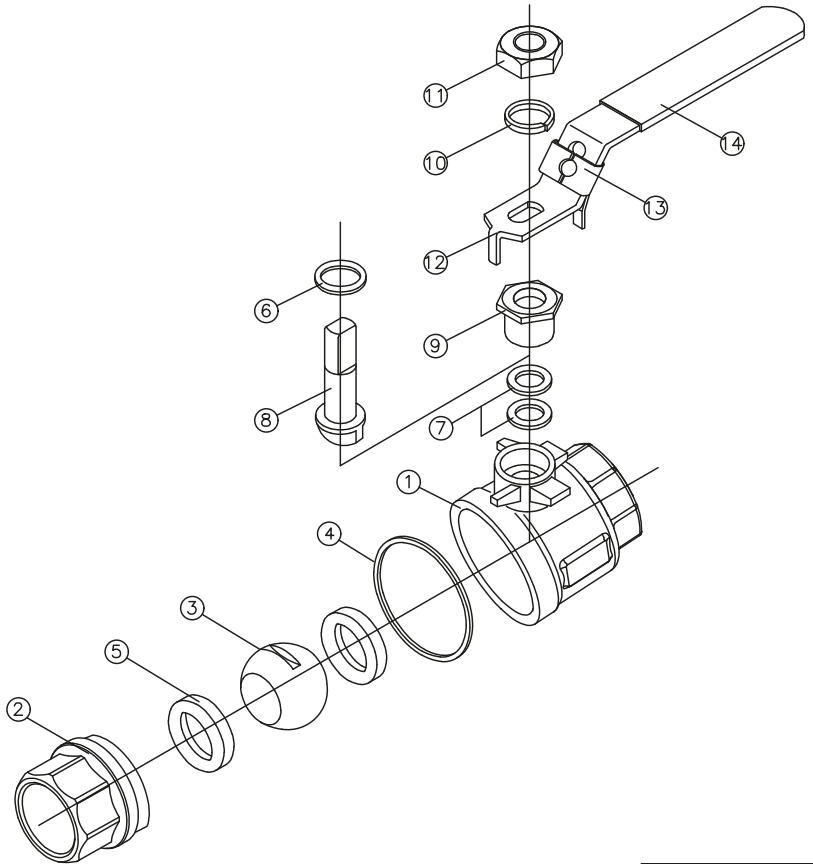




Item No.	DN		L	W	H	Weight
5497274	8	1/4''	50	103	54	0,2
5497275	10	3/8''	50	103	54	0,2
5497276	15	1/2''	59	103	56	0,3
5497277	20	3/4''	66	126	64	0,4
5497278	25	1''	76	126	67	0,6
5497279	32	1 1/4''	89	164	78	1
5497280	40	1 1/2''	99	164	88	1,4
5497281	50	2''	121	185	104	2,6
5497282	65	2 1/2''	147	247	140	5,6
5497283	80	3''	168	247	149	7,2

Measurements in mm.

Dimension DN8–DN80



Number	Part	Material
1	Valve body	14408
2	End fitting	14408
3	Ball	ASTM A351-CF8M
4	Body gasket	PTFE
5	Ball seat	PTFE
6	Compression washer	PTFE
7	Gasket	PTFE
8	Stem	ASTM A276-316
9	Gland ring	AISI 304
10	Belleville washer	AISI 304
11	Stem nut	AISI 304
12	Handle	Stainless Steel
13	Latch lock	Stainless Steel
14	Handle sleeve	PVC

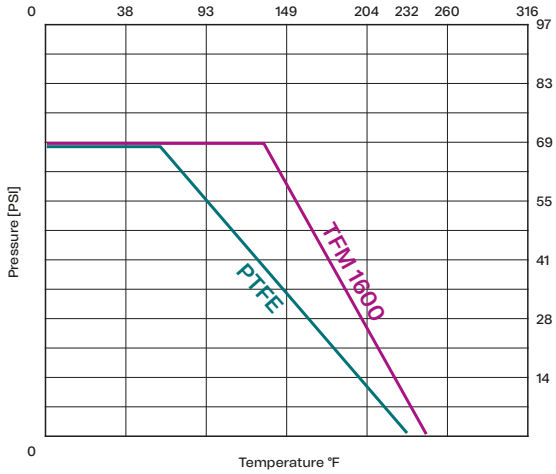
3-piece stainless steel ball valves – 2013ND

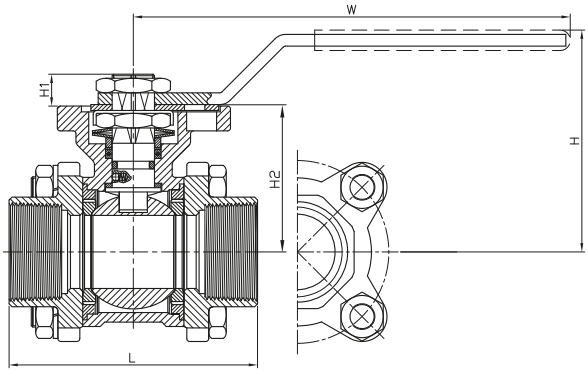
Altech three-piece ball valves with full flow. Female thread fittings. Manual lever with spring-loaded locking device Anti-static stem and ISO 5211 mounting plate for direct actuator installation. Used in water piping systems, in the petroleum and chemical sectors, in power plants and similar sectors. The ball valves can be used in vacuum, down to -0,8 bar.

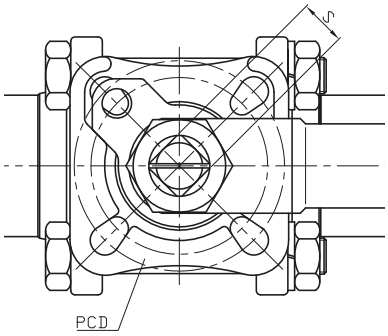
Size range: DN15–DN80.
Pressure class: PN63.
Temperature range: -20 °C–200 °C.

RISE type approval No: C900773.
CE marked in accordance with PED 2014/68/EU.

Pressure/temperature diagram



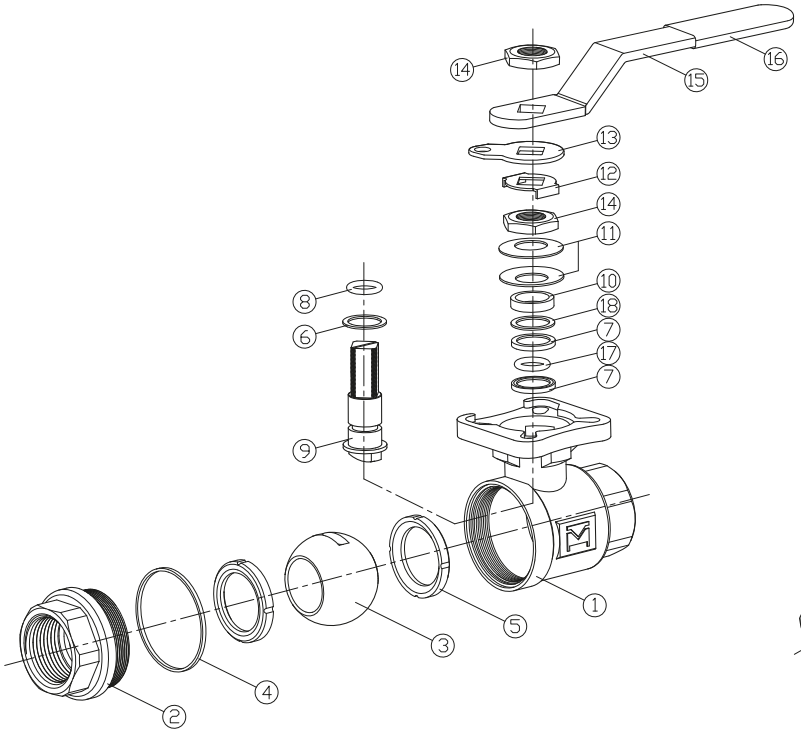




Item No.	DN		L	W	H	H1	H2	S	PCD	Moment	Weight
5496469	15	1/2''	147	47	85	8	37	9	F03/04	7	0,6
5496470	20	3/4''	152	52	91	8	40	9	F03/04	9	0,7
5496471	25	1''	183	58	106	12	49	11	F04/05	15	1,1
5496472	32	1 1/4''	191	70	117	12	55	11	F04/05	18	1,7
5496473	40	1 1/2''	228	78	141	13	66	14	F05/07	25	2,6
5496474	50	2''	237	90	155	14	73	14	F05/07	35	3,7
5496475	65	2 1/2''	421	114	199	17	92	17	F07/10	55	7,4
5496476	80	3''	434	170	226	17	100	17	F07/10	70	10,3

Measurements in mm.
Moments include 30% safety margin.

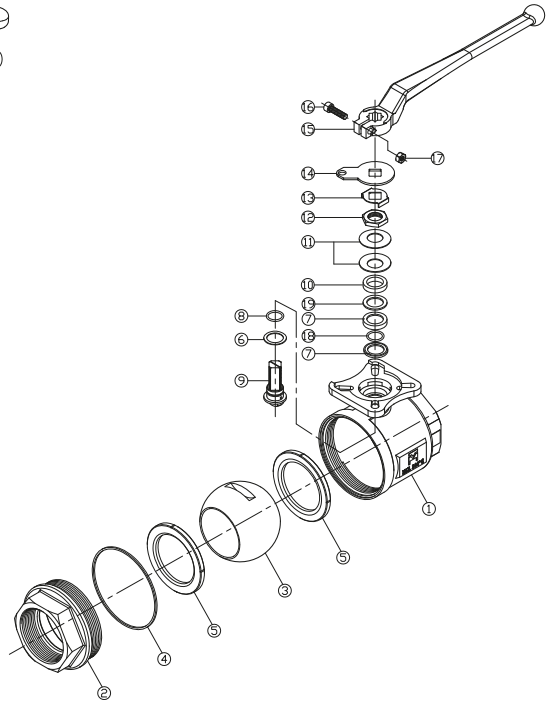
Dimension 15–50



Number	Part	Material
1	Valve body	1.4408
2	End fitting	1.4408
2	Ball	SS316
4	Body gasket*	PTFE
5	Ball seat*	TFM 1600
6	Compression washer	PTFE
7	Gasket A*	PTFE
8	O-ring A*	VITON
9	Stem	SS316
10	Gland ring	AISI 304
11	Belleville washer	AISI 301
12	Lock washer	AISI 304
13	Stop washer	AISI 304
14	Stem nut	AISI 304
15	Handle	Stainless steel
16	Handle cover	PVC
17	O-ring B*	VITON
18	Gasket B*	PEEK

* Part of reparation set, see section "Repair set"

Dimension 65–80



Number	Part	Material
1	Valve body	1.4408
2	End fitting	1.4408
2	Ball	SS316
4	Body gasket*	PTFE
5	Ball seat*	TFM 1600
6	Compression washer	PTFE
7	Gasket A*	PTFE
8	O-ring A*	VITON
9	Stem	SS316
10	Gland ring	AISI 304
11	Belleville washer	AISI 301
12	Stem nut	AISI 304
13	Lock washer	AISI 304
14	Stop washer	AISI 304
15	Handle	Stainless steel
16	Bolt	AISI 304
17	Nut	AISI 304
18	O-ring B*	VITON
19	Gasket B*	PEEK

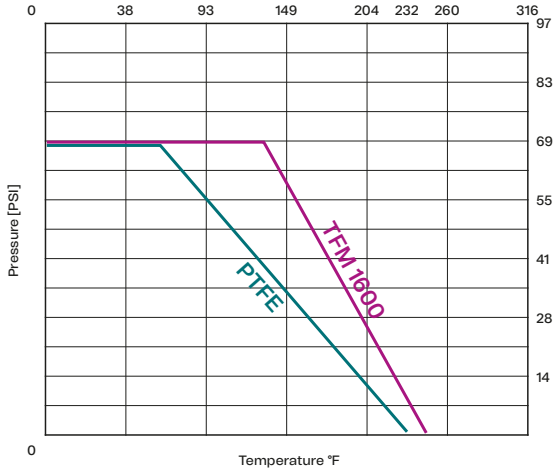
3-piece stainless steel ball valves – 2012NDL

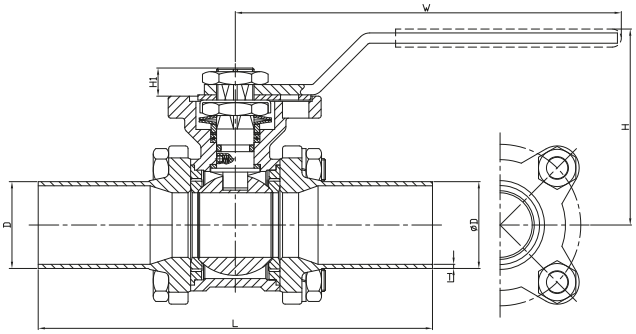
Altech three-piece ball valves with full flow. Fittings with weld ends. Manual lever with spring-loaded locking device Anti-static stem and ISO 5211 mounting plate for direct actuator installation. Used in water piping systems, in the petroleum and chemical sectors, in power plants and similar sectors. The ball valves can be used in vacuum, down to -0,8 bar.

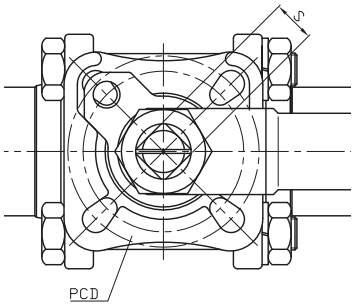
Size range: DN15–DN100.
Pressure class: PN63.
Temperature range: -20 °C–200 °C.

RISE type approval No: C900774.
CE marked in accordance with PED 2014/68/EU.

Pressure/temperature diagram



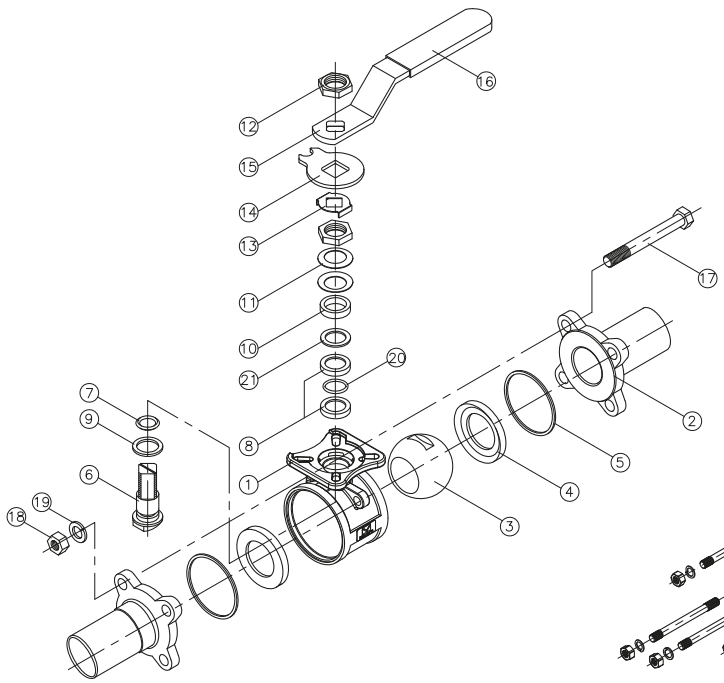




Item No.	DN	D	T	L	W	H	H1	H2	S	PCD	Moment	Weight
5496308	15	21,3	1,6	140	115	63	8	37	9	F03/04	7	0,7
5496309	20	26,9	1,6	140	115	65	8	40	9	F03/04	9	0,8
5496310	25	33,7	2	153	140	77	12	49	11	F04/05	15	1,3
5496311	32	42,4	2	165	140	82	12	55	11	F04/05	18	1,9
5496312	40	48,3	2	191	172	102	13	65	14	F05/07	25	2,9
5496313	50	60,3	2,9	203	172	110	14	73	14	F05/07	35	4,1
5496314	65	76,1	2,9	254	325	127	17	92	17	F07/10	55	8,2
5496315	80	88,9	2,9	280	325	136	17	100	17	F07/10	70	11,1
5496316	100	114,3	2,9	317	325	143	21	130	22	F10/12	90	21,3

Measurements in mm.
Moments include 30% safety margin.

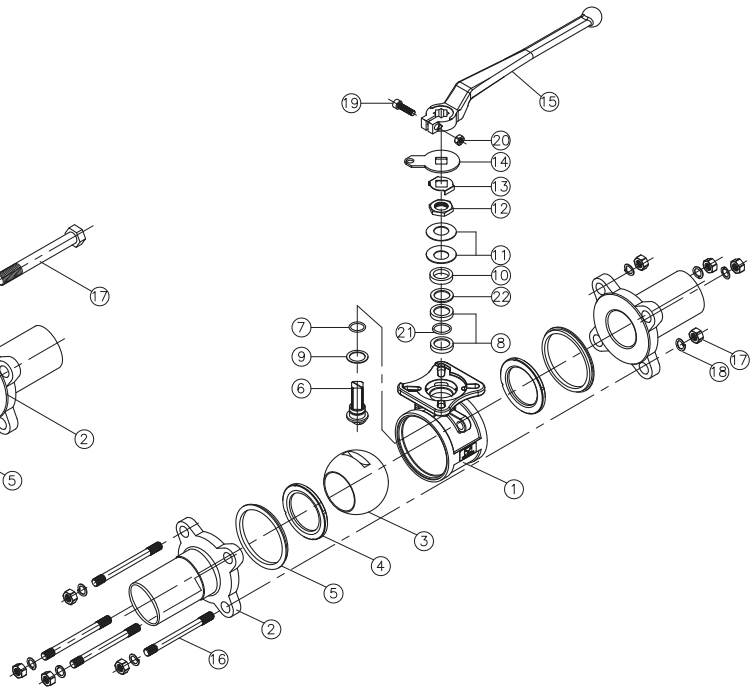
Dimension 15–50



Number	Part	Material
1	Valve body	1.4408
2	End fitting	1.4408
3	Ball	SS316
4	Ball seat*	TFM 1600
5	Body gasket*	PTFE
6	Stem	SS316
7	O-ring A*	VITON
8	Gasket A*	PTFE
9	Compression washer*	PTFE
10	Gland ring	AISI 304
11	Belleville washer	AISI 301
12	Stem nut	AISI 304
13	Lock washer	AISI 304
14	Stop washer	AISI 304
15	Handle	Stainless steel
16	Handle cover	PVC
17	Bolt	AISI 304
18	Nut	AISI 304
19	Spring lock washer	AISI 304
20	O-ring B*	VITON
21	Gasket B*	PEEK

* Part of reparation set, see section "Repair set".

Dimension 65–100



Number	Part	Material
1	Valve body	1.4408
2	End fitting	1.4408
2	Ball	1.4408
4	Ball seat*	TFM 1600
5	Body gasket*	PTFE
6	Stem	SS316
7	O-ring A*	VITON
8	Gasket A*	PTFE
9	Compression washer*	PTFE
10	Gland ring	AISI 304
11	Belleville washer	AISI 301
12	Stem nut	AISI 304
13	Lock washer	AISI 304
14	Stop washer	AISI 304
15	Handle	AISI 304
16	Bolt	AISI 304
17	Nut	AISI 304
18	Spring lock washer	AISI 304
19	Bolt	AISI 304
20	Nut	AISI 304
21	O-ring B*	VITON
22	Gasket B*	PEEK

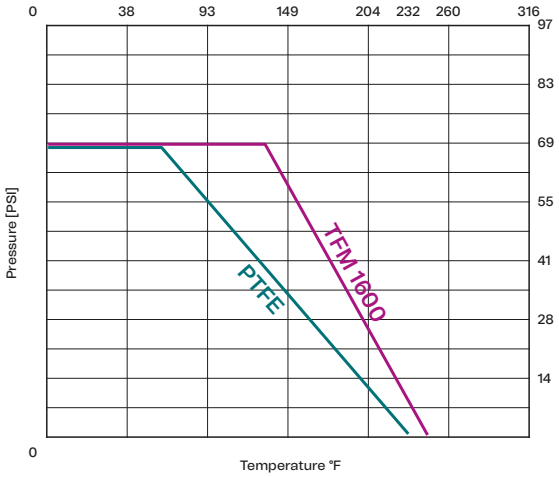
3-piece stainless steel ball valves – 2012NDLM

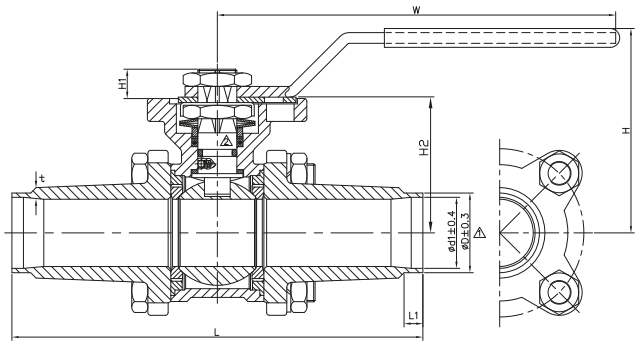
Altech stainless steel three piece ball valves with full flow, fittings with weld ends MM and manual lever. Anti-static stem and ISO 5211 mounting plate for direct actuator installation. Used in water piping systems, in the petroleum and chemical sectors, in power plants and similar sectors. The ball valves can be used in vacuum, down to -0,8 bar.

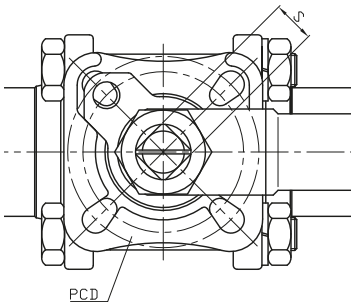
Size range: DN15–DN100.
Pressure class: PN63.
Temperature range: -20 °C–200 °C.

RISE type approval No: C900774.
CE marked in accordance with PED 2014/68/EU.

Pressure/temperature diagram



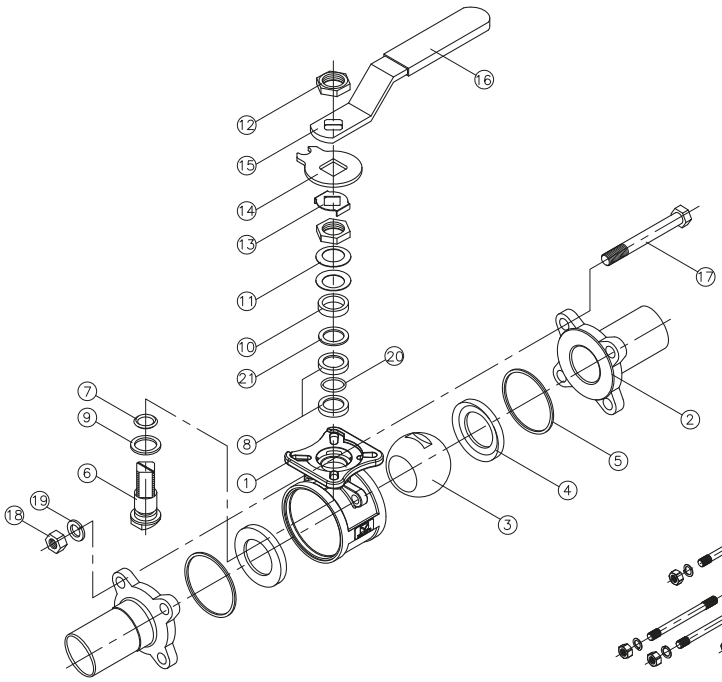




Item No.	DN	d	D	L	W	H	H1	H2	S	PCD	Moment	Weight
5496454	15	16	20	140	115	62	8	37	9	F03/04	7	0,6
5496455	20	21	25	140	115	65	8	40	9	F03/04	9	0,8
5496456	25	26	30	153	140	76	12	49	11	F04/05	15	1,3
5496457	32	34	38	165	140	82	12	55	11	F04/05	18	1,9
5496458	40	40,5	44,5	191	172	102	13	65	14	F05/07	25	2,9
5496459	50	50	54	203	172	111	14	73	14	F05/07	35	4,1
5496460	65	66	70	254	325	128	17	92	17	F07/10	55	8,2
5496461	80	80	84	280	325	136	17	100	17	F07/10	70	11,1
5496462	100	100	104	317	325	143	21	130	22	F10/12	90	21,3

Measurements in mm.
Moments include 30% safety margin.

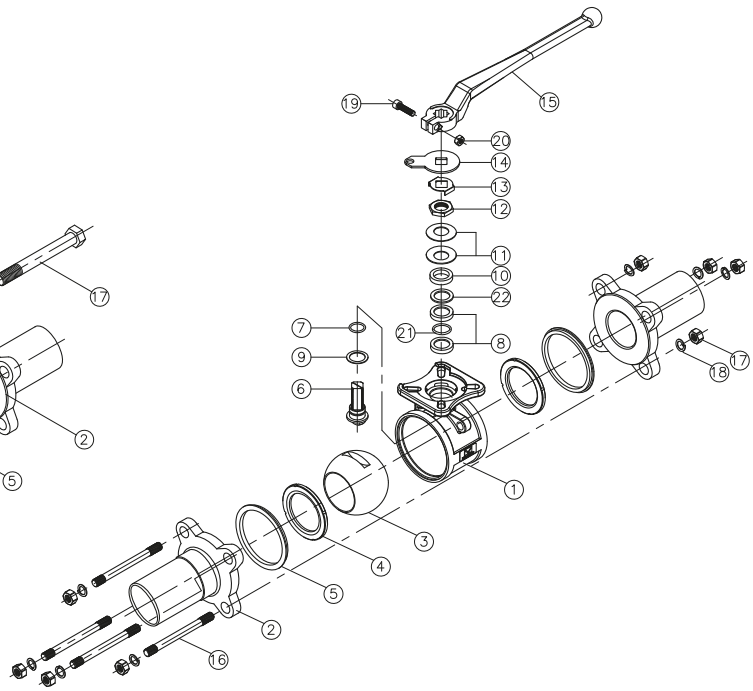
Dimension 15–50



Number	Part	Material
1	Valve body	1.4408
2	End fitting	1.4408
3	Ball	SS316
4	Ball seat*	TFM 1600
5	Body gasket*	PTFE
6	Stem	SS316
7	O-ring A*	VITON
8	Gasket A*	PTFE
9	Compression washer*	PTFE
10	Gland ring	AISI 304
11	Belleville washer	AISI 301
12	Stem nut	AISI 304
13	Lock washer	AISI 304
14	Stop washer	AISI 304
15	Handle	Rostfritt stål
16	Handle cover	PVC
17	Bolt	AISI 304
18	Nut	AISI 304
19	Spring lock washer	AISI 304
20	O-ring B*	VITON
21	Gasket B*	PEEK

* Part of reparation set, see section "Repair set".

Dimension 65–100



Number	Part	Material
1	Valve body	1.4408
2	End fitting	1.4408
2	Ball	1.4408
4	Ball seat*	TFM 1600
5	Body gasket*	PTFE
6	Stem	SS316
7	O-ring A*	VITON
8	Gasket A*	PTFE
9	Compression washer*	PTFE
10	Gland ring	AISI 304
11	Belleville washer	AISI 301
12	Stem nut	AISI 304
13	Lock washer	AISI 304
14	Stop washer	AISI 304
15	Handle	AISI 304
16	Bolt	AISI 304
17	Nut	AISI 304
18	Spring lock washer	AISI 304
19	Bult	AISI 304
20	Nut	AISI 304
21	O-ring B*	VITON
22	Gasket B*	PEEK

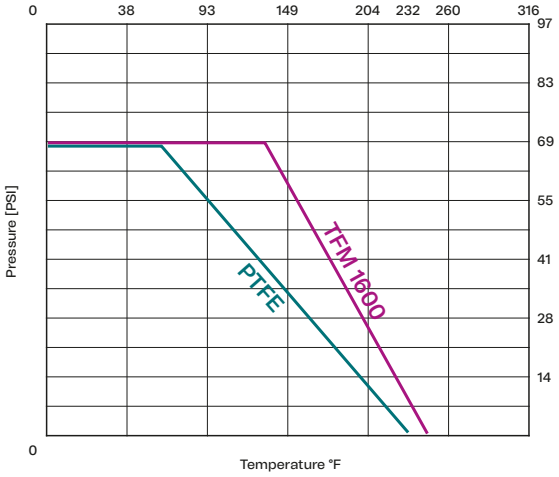
3-piece stainless steel ball valves – 2012NDL-2013ND

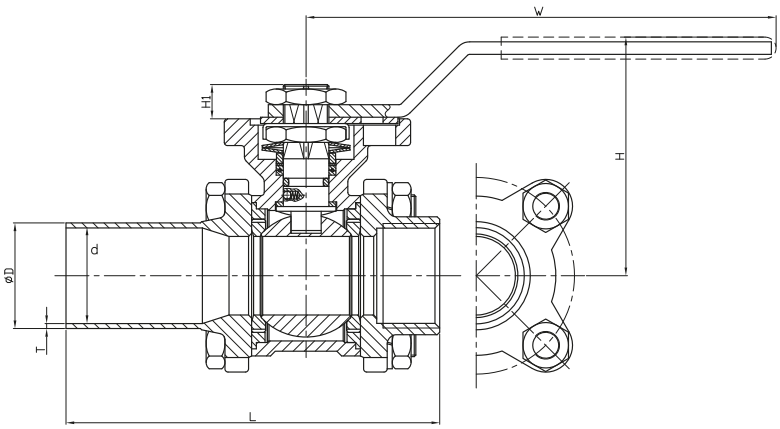
Altech three-piece ball valves with full flow. With female thread fitting and weld end. Manual lever with spring-loaded locking device Anti-static stem and ISO 5211 mounting plate for direct actuator installation. Used in water piping systems, in the petroleum and chemical sectors, in power plants and similar sectors. The ball valves can be used in vacuum, down to -0,8 bar.

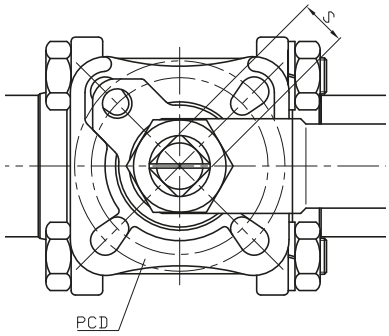
Size range: DN15–DN50.
Pressure class: PN63.
Temperature range: -20 °C–200 °C.

RISE type approval No: C900774.
CE marked in accordance with PED 2014/68/EU.

Pressure/temperature diagram



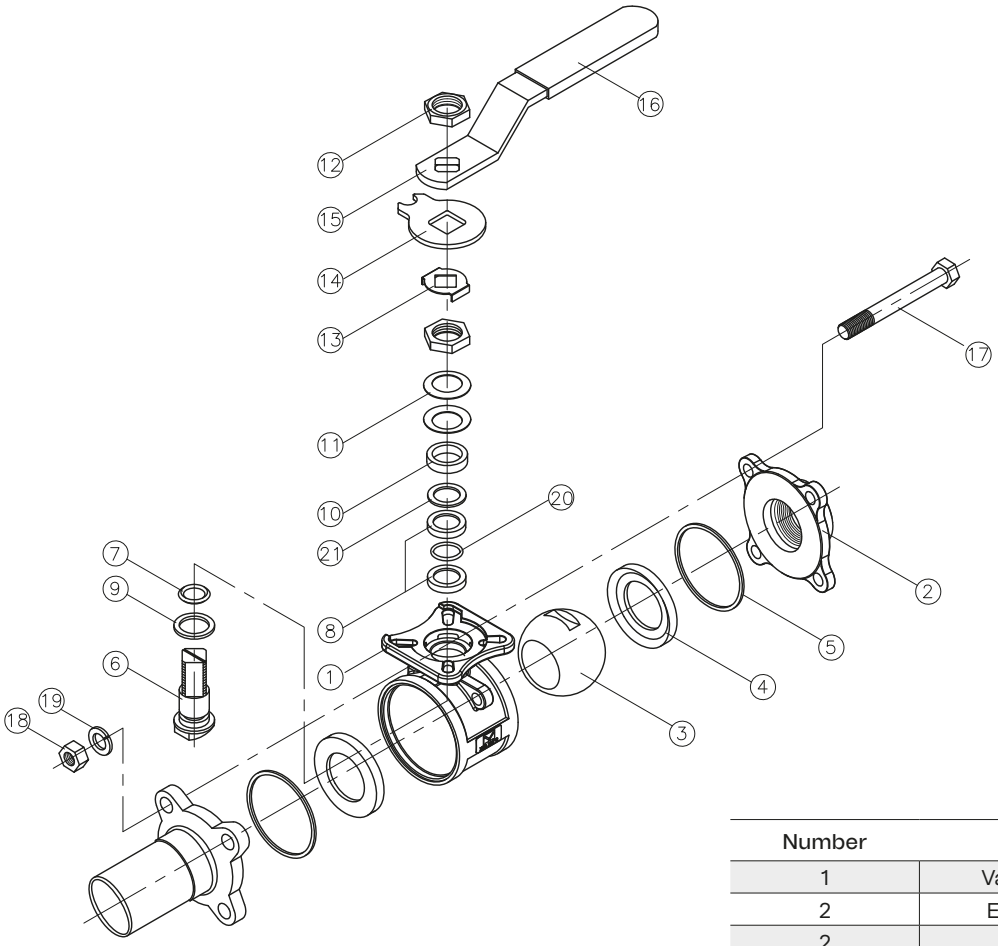




Item No.	DN		D	T	L	W	H	H1	H2	S	PCD	Moment	Weight
5496326	15	1/2''	21,3	1,6	103	115	63	8	37	9	F03/04	7	0,6
5496327	20	3/4''	26,9	1,6	108	115	66	8	40	9	F03/04	9	0,8
5496328	25	1''	33,7	2	119	140	77	12	49	11	F04/05	15	1,2
5496329	32	1 1/4''	42,4	2	133	140	82	12	55	11	F04/05	18	1,7
5496330	40	1 1/2''	48,3	2	152	172	102	13	65	14	F05/07	25	2,8
5496331	50	2''	60,3	2,9	167	172	110	14	73	14	F05/07	35	4

Measurements in mm.
Moments include 30% safety margin.

Dimension DN15–50



Number	Part	Material
1	Valve body	1.4408
2	End fitting	1.4408
2	Ball	SS316
4	Ball seat*	TFM 1600
5	Body gasket*	PTFE
6	Stem	SS316
7	O-ring A*	VITON
8	Gasket A*	PTFE
9	Compression washer	PTFE
10	Gland ring	AISI 304
11	Belleville washer	AISI 301
12	Stem nut	AISI 304
13	Lock washer	AISI 304
14	Stop washer	AISI 304
15	Handle	Stainless steel
16	Handle cover	PVC
17	Bolt	AISI 304
18	Nut	AISI 304
19	Spring lock washer	AISI 304
20	O-ring B*	VITON
21	Gasket B*	PEEK

* Part of reparation set, see section "Repair set".

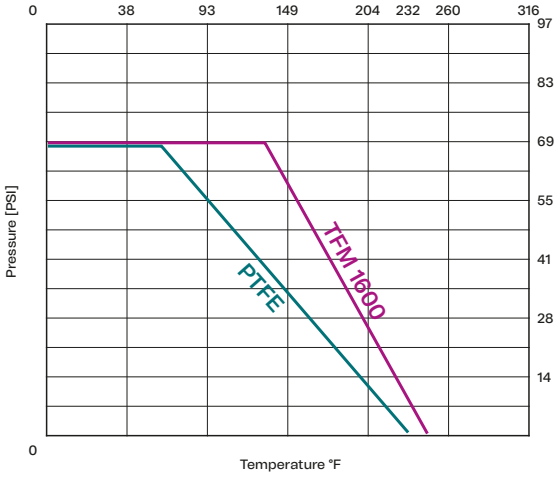
3-piece stainless steel ball valves – 2012NDLM-2013ND

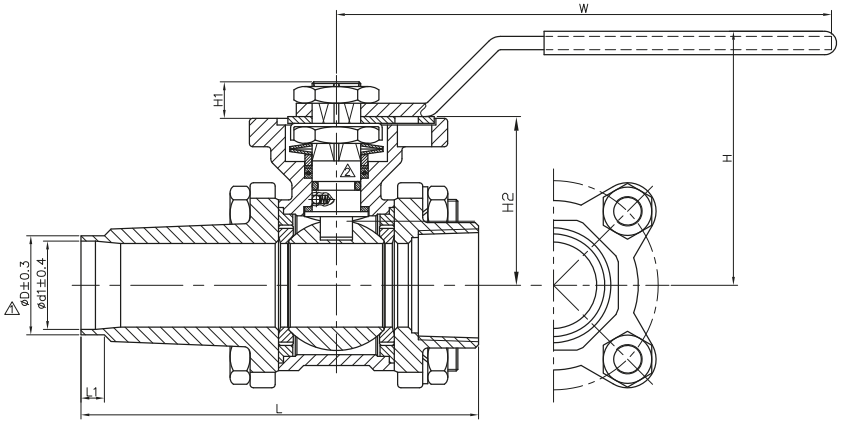
Altech three-piece ball valves with full flow. With female thread fitting and weld end mm. Manual lever with spring-loaded locking device Anti-static stem and ISO 5211 mounting plate for direct actuator installation. Used in water piping systems, in the petroleum and chemical sectors, in power plants and similar sectors. The ball valves can be used in vacuum, down to -0,8 bar.

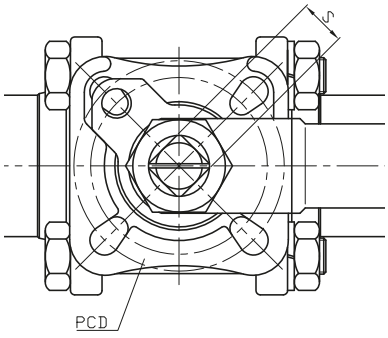
Size range: DN15–DN50.
Pressure class: PN63.
Temperature range: -20 °C–200 °C.

RISE type approval No: C900774.
CE marked in accordance with PED 2014/68/EU.

Pressure/temperature diagram



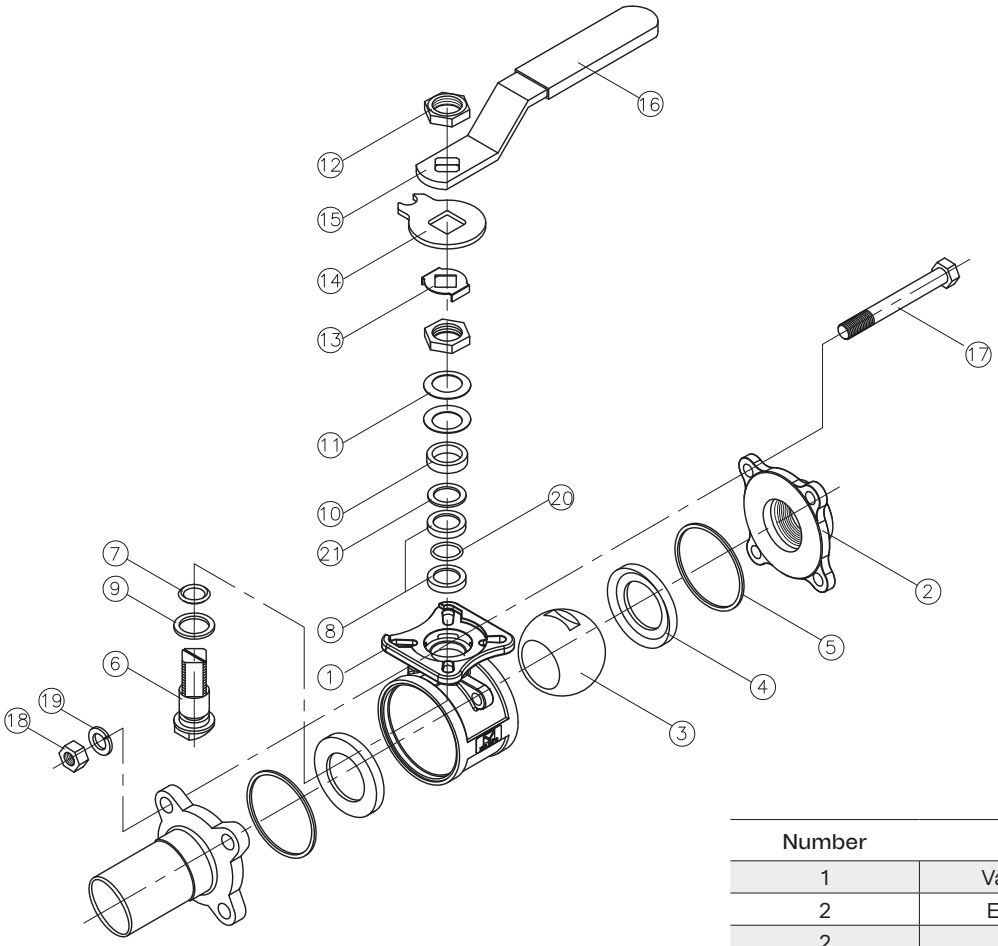




Item No.	DN		d	D	L	W	H	H1	H2	S	PCD	Moment	Weight
5496463	15	1/2''	16	20	103	115	63	8	37	9	F03/04	7	0,6
5496464	20	3/4''	21	25	108	115	66	8	40	9	F03/04	9	0,8
5496465	25	1''	26	30	119	140	77	12	49	11	F04/05	15	1,2
5496466	32	1 1/4''	34	38	133	140	82	12	55	11	F04/05	18	1,7
5496467	40	1 1/2''	40,5	44,5	152	172	102	13	65	14	F05/07	25	2,8
5496468	50	2''	50	54	167	172	110	14	73	14	F05/07	35	4

Measurements in mm.
Moments include 30% safety margin.

Dimension DN15–50



Number	Part	Material
1	Valve body	1.4408
2	End fitting	1.4408
2	Ball	SS316
4	Ball seat*	TFM 1600
5	Body gasket*	PTFE
6	Stem	SS316
7	O-ring A*	VITON
8	Gasket A*	PTFE
9	Compression washer	PTFE
10	Gland ring	AISI 304
11	Belleville washer	AISI 301
12	Stem nut	AISI 304
13	Lock washer	AISI 304
14	Stop washer	AISI 304
15	Handle	Stainless steel
16	Handle cover	PVC
17	Bolt	AISI 304
18	Nut	AISI 304
19	Spring lock washer	AISI 304
20	O-ring B*	VITON
21	Gasket B*	PEEK

* Part of reparation set, see section "Repair set".

Dimension	Kv (m³/h)
3/8"	21
1/2"	32
3/4"	58
1"	93
1-1/4"	159
1-1/2"	230
2"	416
2-1/2"	678
3"	985
4"	1 621

Absolve values apply on att ball valves in this product information folder

Accessories

Spring-return handle

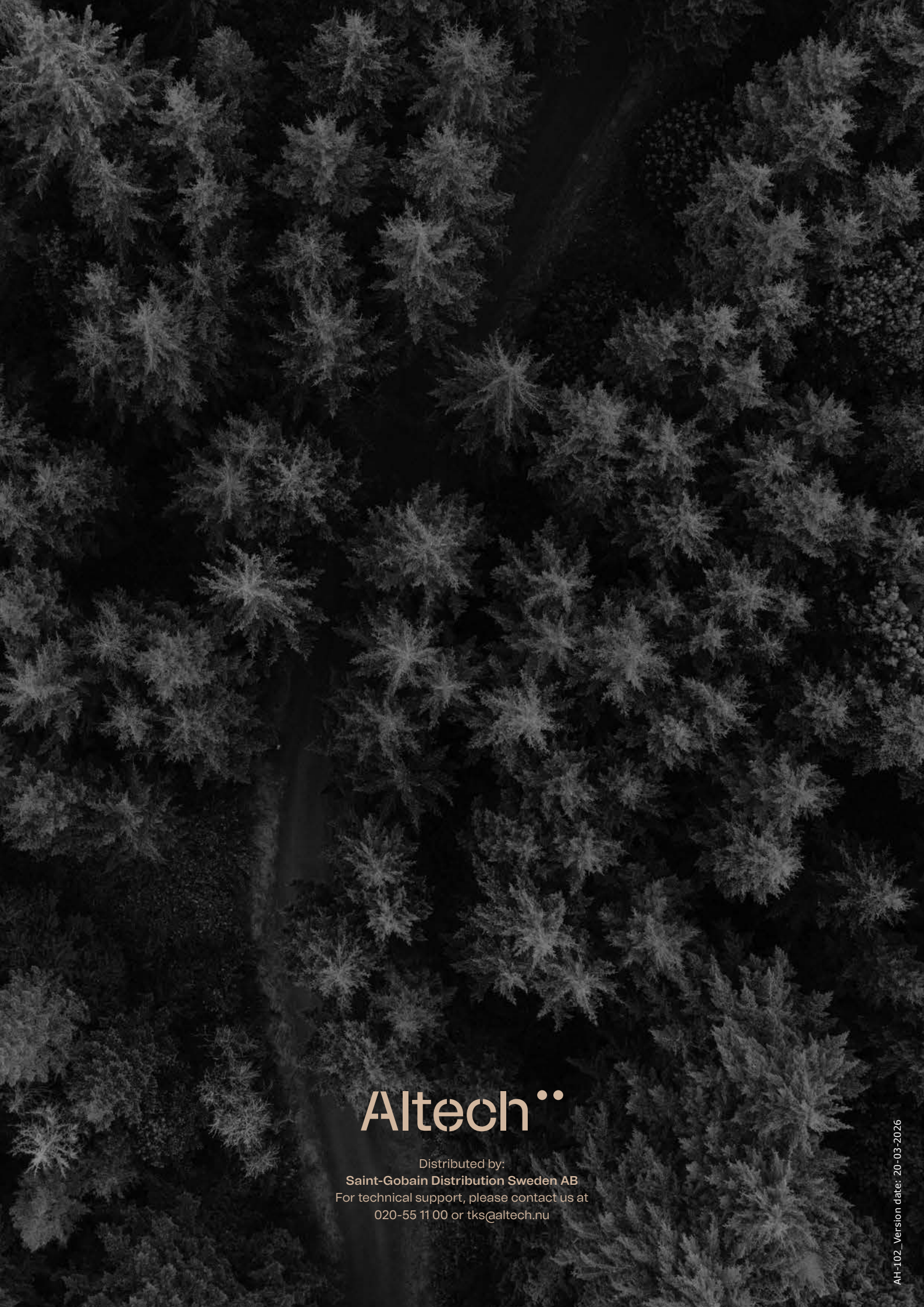
Spring-return handle for Altech 2 and 3-piece ball valves. Enables return to preselected open or closed position after operation.

Item No.	Designation
5197027	Handle F03
5197028	Handle F04
5197029	Handle F05

Repair kit

Repair kit for Altech 3-piece stainless steel ball valves.

Item No.	Designation	Gasket B: Peek (st)	Gasket A: PTFE (st)	O-ring: Viton (st)	Body gasket: PTFE (st)	Compression washer: PTFE (st)	Ball seat: TFM1600 (st)
5197039	2012NDL & 2013ND DN15	1	2	2	2	1	1
5197040	2012NDL & 2013ND DN20	1	2	2	2	1	1
5197041	2012NDL & 2013ND DN25	1	2	2	2	1	1
5197042	2012NDL & 2013ND DN32	1	2	2	2	1	1
5197043	2012NDL & 2013ND DN40	1	2	2	2	1	1
5197044	2012NDL & 2013ND DN50	1	2	2	2	1	1
5197045	2012NDL & 2013ND DN65	1	2	3	2	1	1
5197046	2012NDL & 2013ND DN80	1	2	3	2	1	1
5197047	2012NDL & 2013ND DN100	1	2	3	2	1	1



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AH-102_Version date: 20-03-2026