

KITZ

"Jso"

The reliable brand

Ball Valves

SB-Class 800

HB-Class 800/900/1500/2500

One piece body construction, Full / Reduced Bore Valve



KITZ CORPORATION OF EUROPE S.A.

Ball Valves

Floating Ball design

Contents

Class 800 Carbon Steel / Stainless Steel Ball Valves (SB-80)	3
Class 800 Carbon Steel / Stainless Steel Ball Valves (HB)	4
Class 900 Carbon Steel / Stainless Steel Ball Valves (HB)	6
Class 1500 Carbon Steel / Stainless Steel Ball Valves (HB)	8
Class 2500 Carbon Steel / Stainless Steel Ball Valves (HB)	10



KITZ Corporation Headquarter, Chiba, Japan



KITZ Corporation of Europe, S.A., Barcelona Plant, Spain

All products introduced in this cataloge are covered by ISO 9001 certification awarded KITZ Corporation of Europe, S.A.

SB-80 - Class 800 Carbon Steel / Stainless Steel Ball Valves

Reduced Bore Valve, 1 piece body construction

Features

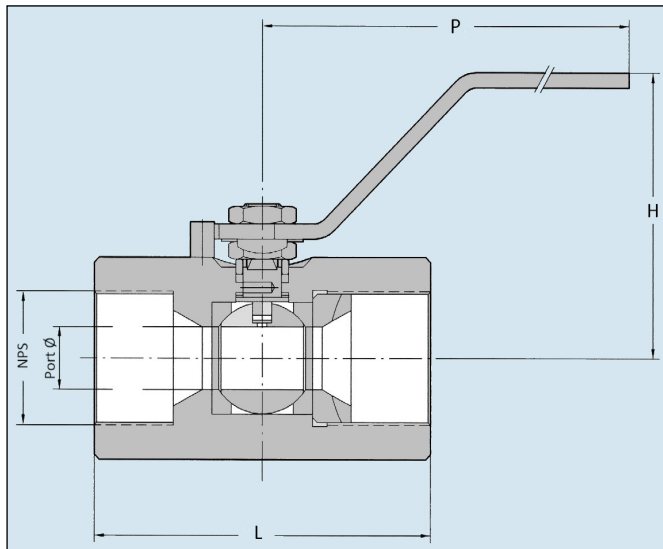
- Antistatic device
- Blowout-proof stem
- High performance PTFE ball seats

Standards

- Ball valves are designed according to EN 1983/B16.34

Connections

- NPT thread: ANSI B1.20.1
- BSP thread: ISO228
- BW (only one side): Nipple Sch 40-80 (Ansi B16.25), Screwed (other side)
- SW : ASME B16.5



Construction and Standard Materials

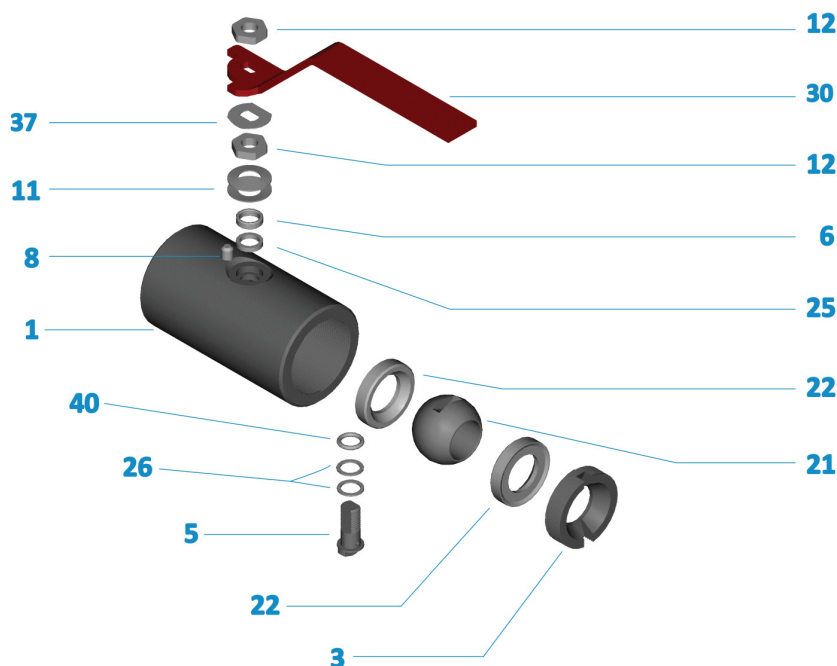
No.	Parts	Carbon Steel	Stainless Steel
1	Body	ASTM A105	ASTM A479/A182 Gr. 316L
3	Insert	ASTM A105	ASTM A479 316
5	Antistatic Stem	ASTM A479 Type 316	
6	Gland	ASTM A479 Type 316	
8	Stop Pin	Steel	DIN 267/11 A2-70
11	Spring washer	Blued steel	304CSP
12	Nut	DIN267/4 C 8 blued	DIN 267/11 A2-70
21	Ball	ASTM A479 Type 316	
22	Ball seat	PTFE	
25	Gland Packing	Graphite	
26	Stem Seal	PTFE + 25% Graphite	
30	Handle	Steel coated	
37	Stop washer	Stainless Steel	
40	Stem O'ring	All gas and $\geq 1\frac{1}{2}$ " : FKM	

Dimensions: mm

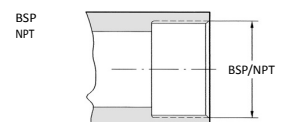
CLASS 800

NPS	Port	Dimensions		
		L	H	P
1/4"	9.5	60	53	120
3/8"				
1/2"				
3/4"	12,5	70	56	150
1"	17	80	58	
1 1/2"	25	100	97	
2"	32	110	102	

Dimensions: mm



END CONNECTIONS



All part numbers are corresponding with those shown in valve assembly drawings.

HB - Class 800 Carbon Steel / Stainless Steel Ball Valves

Full or reduced Bore Valve, 1 piece body construction

Features

- Antistatic device
- Blowout-proof stem
- Fire test certification
- High performance PTFE ball seats

Standards

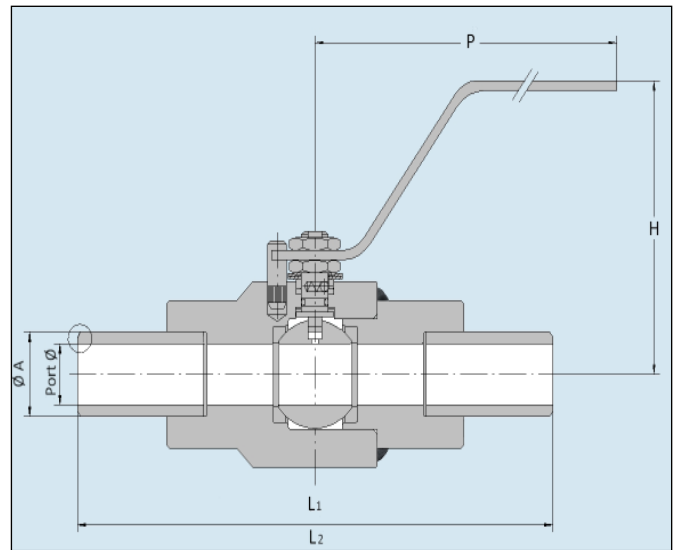
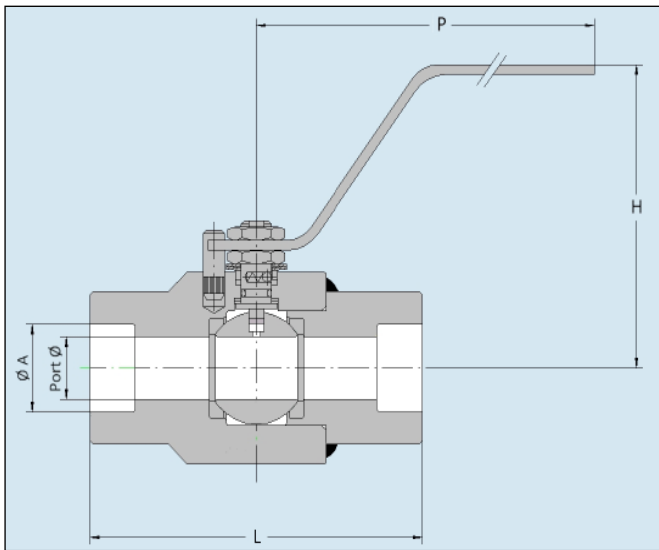
- Ball valves design according to EN 1983/B16.34

- FSM according to API 607 - ISO 10497

Connections

- NPT thread: ANSI B1.20.1
- BSP thread: ISO228
- SW: Ansi B16.5
- BW: SW+Nipples Sch 40-80 (Ansi B16.25)

Page 5 for Construction and Materials



CLASS 800

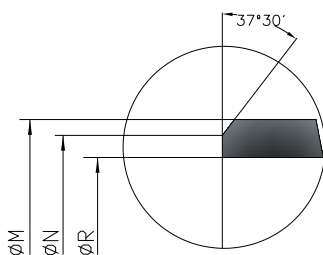
NPS		Port	Dimensions					SW sch A	
RB	FB		L	L1	L2	H	P	RB	FB
-	1/4"	12,5	90	240	400	85	150	-	14,1
-	3/8"							-	17,7
3/4"	1/2"							27,4	21,8
1"	3/4"	19	110	260	400	90	200	34,1	27,4
-	1"	25	120			100		-	34,1
1 1/2"	-	32	130			105		49	-
2"	1 1/2"	38	150	260	400	110	200	61	49
-	2"	51	180			116		350	-

Dimensions: mm

Execution BW = SW + Nipple

NPS	ØM	Sch 10S		Sch 40S		Sch 80		Sch 160	
		ØN	ØR	ØN	ØR	ØN	ØR	ØN	ØR
1/2"	21,3	-	17,1	-	15,8	-	13,9	15,0	11,8
3/4"	26,7	-	22,5	-	21,0	-	18,9	18,8	15,6
1"	33,4	31,1	27,9	29,8	26,6	27,5	24,3	23,9	20,7
1 1/2"	48,3	46,0	42,8	44,1	40,9	41,3	38,1	37,2	34,0
2"	60,3	58,0	54,8	55,7	52,5	52,4	49,2	46,1	42,9
Cod. CS						Standard		Special	
Cod. SS		Special		Standard					

Dimensions: mm

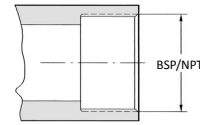


HB Class 800 - Construction and Standard Materials

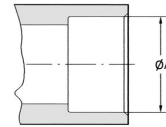
No.	Parts	Carbon Steel	Stainless Steel
1	Body	ASTM A105	ASTM A479 316L
4	Body Connector	ASTM A105	ASTM A479 316L
5	Antistatic Stem	ASTM A479 Type 316	
6	Gland	ASTM A479 Type 316	
8	Stop Pin	Steel	DIN 267/11 A2-70
9	Stop plate (DN>1")	Steel	
11	Spring washer	Blued steel	304CSP
12	Nut	DIN 267/3 C 8 .8 blued	DIN 267/11 A2-70
21	Ball	DN ≤ 1": ASTM A479 Type 316 DN ≥ 1½": DIN 1.4408 (CF8M)	
22	Ball seat	PTFE	
25	Gland Packing	Graphite	
26	Stem Seal	DN ≤ 1": PTFE + 25% Graphite DN ≥ 1½": PTFE	
28	Nipple	ASTM A106 gr. B	ASTM A312 Type 316L
30	Handle	DN ≤ 1": Steel coated DN ≥ 1½": GGG40	
40	Stem O'ring	FKM	

END CONNECTIONS

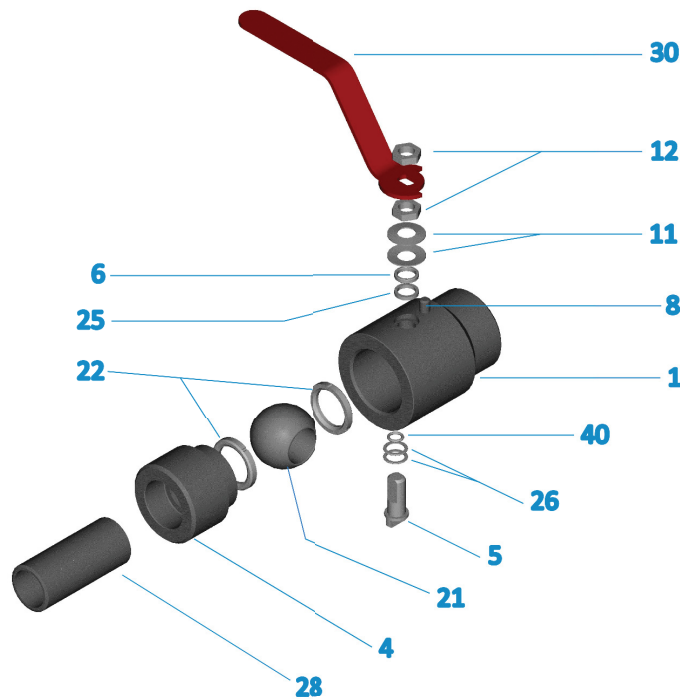
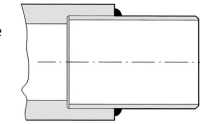
BSP
NPT



SW Sch
SW mm.



BW:
SW+Nipple



All part numbers are corresponding with those shown in valve assembly drawings.

HB - Class 900 Carbon Steel / Stainless Steel Ball Valves

Full or reduced Bore Valve, 1 piece body construction

Features

- Antistatic device
- Blowout-proof stem
- Fire test certification
- High performance PCTFE ball seats

Standards

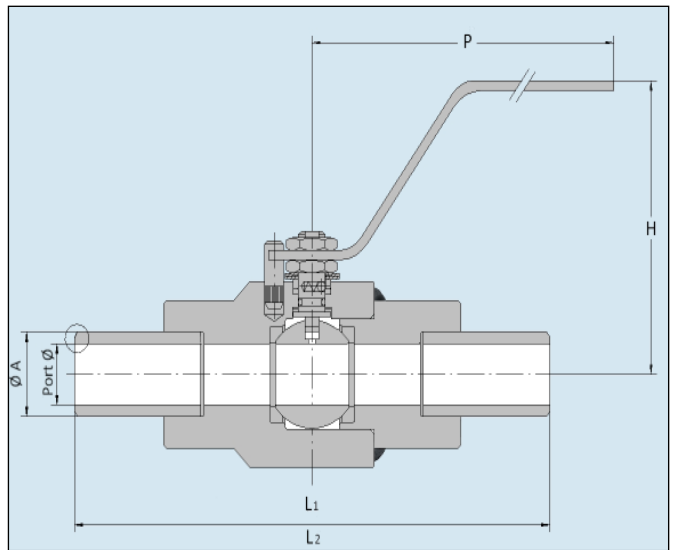
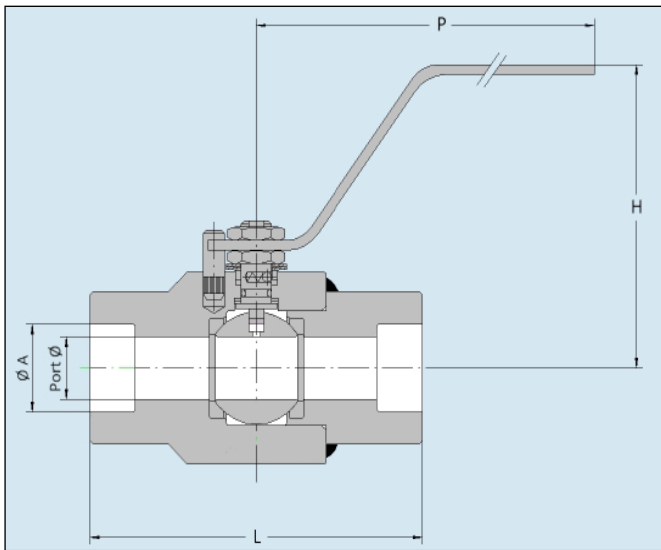
- Ball valves design according to BS EN 12516

- FSM according to API 607 - ISO 10497

Connections

- NPT thread: ANSI B1.20.1
- BSP thread: ISO228
- SW: Ansi B16.5
- BW: SW+Nipples Sch 40-80 (Ansi B16.25)

Page 7 for Construction and Materials



CLASS 900

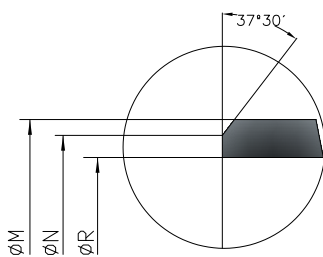
NPS		Port	Dimensions					SW sch A	
RB	FB		L	L1	L2	H	P	RB	FB
-	1/4"	12,5	90	240	400	85	150	-	14,1
-	3/8"							-	17,7
3/4"	1/2"							27,4	21,8
1"	3/4"	19	110			95	200	34,1	27,4
-	1"	25	120			110		-	34,1
1 1/2"	-	32	130			105		49	-
2"	1 1/2"	38	150	110	260	116	61	49	
-	2"	51	180	116			350	-	61

Dimensions: mm

Execution BW = SW + Nipple

NPS	ØM	Sch 10S		Sch 40S		Sch 80		Sch 160	
		ØN	ØR	ØN	ØR	ØN	ØR	ØN	ØR
1/2"	21,3	-	17,1	-	15,8	-	13,9	15,0	11,8
3/4"	26,7	-	22,5	-	21,0	-	18,9	18,8	15,6
1"	33,4	31,1	27,9	29,8	26,6	27,5	24,3	23,9	20,7
1 1/2"	48,3	46,0	42,8	44,1	40,9	41,3	38,1	37,2	34,0
2"	60,3	58,0	54,8	55,7	52,5	52,4	49,2	46,1	42,9
Cod. CS						Standard		Special	
Cod. SS		Special		Standard					

Dimensions: mm

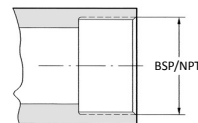


HB Class 900 - Construction and Standard Materials

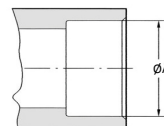
No.	Parts	Carbon Steel	Stainless Steel
1	Body	ASTM A105	ASTM A479 316L
4	Body Connector	ASTM A105	ASTM A479 316L
5	Antistatic Stem	ASTM A564 Type 630	
6	Gland	ASTM A479 Type 316	
8	Stop Pin	Steel	DIN 267/11 A2-70
9	Stop plate (DN>1")	Steel	
11	Spring washer	Blued steel	304CSP
12	Nut	DIN 267/3 C 8 .8 blued	DIN 267/11 A2-70
21	Ball	DN ≤ 1": ASTM A479 Type 316 DN ≥ 1½": DIN 1.4408 (CF8M)	
22	Ball seat	PCTFE	
25	Gland Packing	Graphite	
26	Stem Seal	DN ≤ 1": PTFE + 25% Graphite DN ≥ 1½": PTFE	
28	Nipple	ASTM A106 gr. B	ASTM A312 Type 316L
30	Handle	DN ≤ 1": Steel coated DN ≥ 1½": GGG40	
40	Stem O'ring	FKM (AED)	

END CONNECTIONS

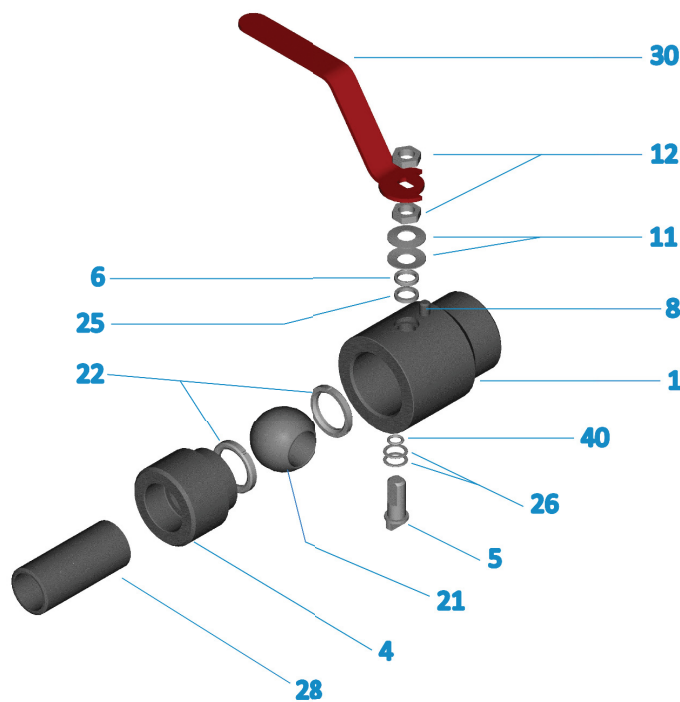
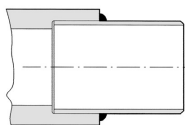
BSP
NPT



SW Sch
SW mm.



BW:
SW+Nipple



All part numbers are corresponding with those shown in valve assembly drawings.

HB - Class 1500 Carbon Steel / Stainless Steel Ball Valves

Full or reduced Bore Valve, 1 piece body construction

Features

- Antistatic device
- Blowout-proof stem
- Fire test certification
- High performance **DEVLON** ball seats

Standards

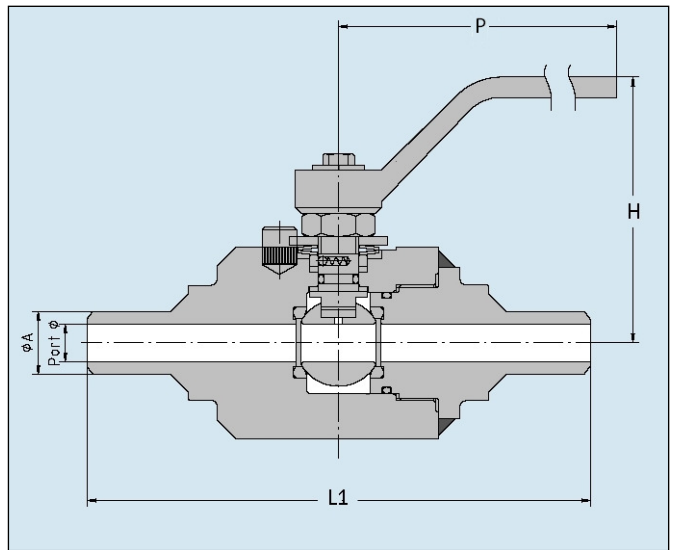
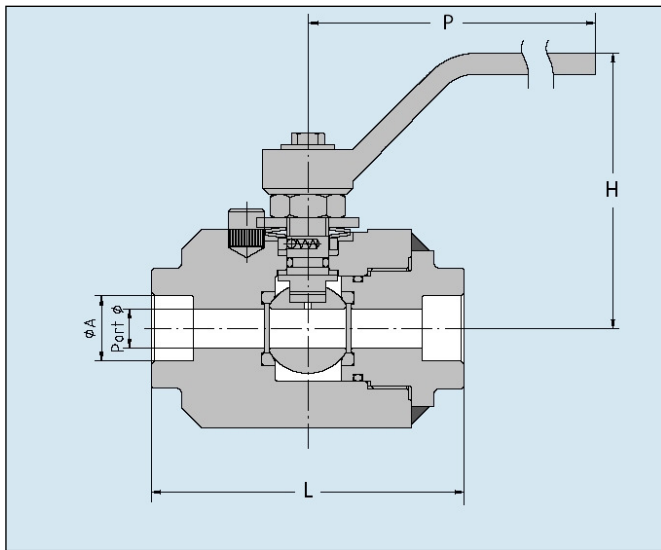
- Ball valves design according to ASME B16.34

- FSM according to API 607 - ISO 10497

Connections

- NPT thread: ANSI B1.20.1
- BSP thread: ISO228
- SW: Ansi B16.34
- BW: SW+Nipples Sch 40-80 (Ansi B16.25)

Page 9 for Construction and Materials



CLASS 1500

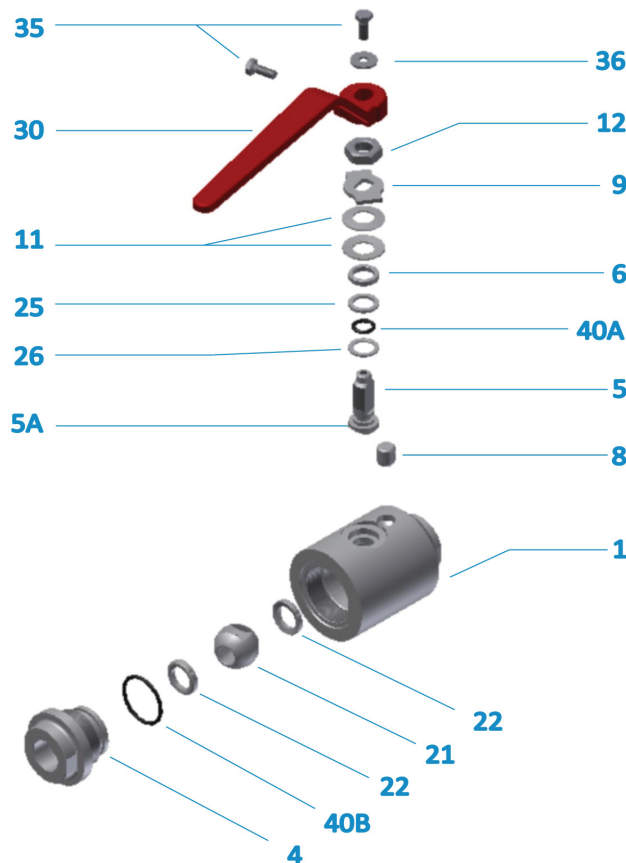
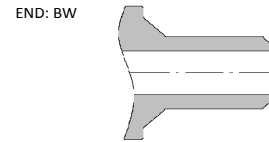
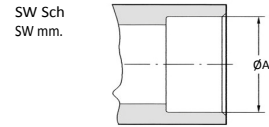
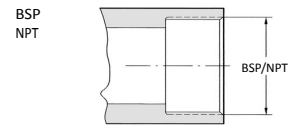
NPS		Port	Dimensions							
			L	L1	H	P	SW sch A		BW sch A	
RB	FB	RB					FB	RB	FB	
-	1/4"	7	104	300	92	200	-	14,1	-	-
-	3/8"	10					-	17,7	-	-
3/4"	1/2"	13					27,7	22,2	26,7	21,3
1"	3/4"	19					34,5	27,7	33,4	26,7
-	1"	25	140	340	110	350	-	34,5	-	33,4
2"	1 1/2"	38	190	390	120		62	49,6	60,3	48,3
-	2"	49	210	410	130		-	62	-	60,3

Dimensions: mm

HB Class 1500 - Construction and Standard Materials

No.	Parts	Carbon Steel	Stainless Steel
1	Body	ASTM A105/A105N	ASTM A479 Type 316L
4	Body Connector	ASTM A105/A105N	ASTM A479 Type 316L
5	Stem	ASTM A564 Type 630 H1150D	
5A	Antistatic ball and spring	316 SS	
6	Gland	ASTM A479 Type 316	
8	Stop pin	Steel coated	Stainless steel
9	Stopper plate	Steel zinc plated	
11	Spring washer	Steel coated	Stainless steel
12	Nut	Steel coated	Stainless steel
21	Ball	ASTM A479 S31803	
22	Seat	DEVLON	
25	Gland packing	Flexible graphite	
26	Thurst washer	PEEK	
30	Handle	Ductile iron (Up to size 1")	
31	Handle head	Ductile iron (Size 1.1/2" and over)	
32	Handle bar	Carbon steel (Size 1.1/2" and over)	
35	Bolt	Steel coated	Stainless steel
36	Washer	Steel coated	Stainless steel
40A	Stem O'ring	FKM (AED)	
40B	Body O'ring	FKM (AED)	

END CONNECTIONS



All part numbers are corresponding with those shown in valve assembly drawings.

HB - Class 2500 Carbon Steel / Stainless Steel Ball Valves

Full or reduced Bore Valve, 1 piece body construction

Features

- Antistatic device
- Blowout-proof stem
- Fire test certification
- High performance **DEVLON** ball seats

Standards

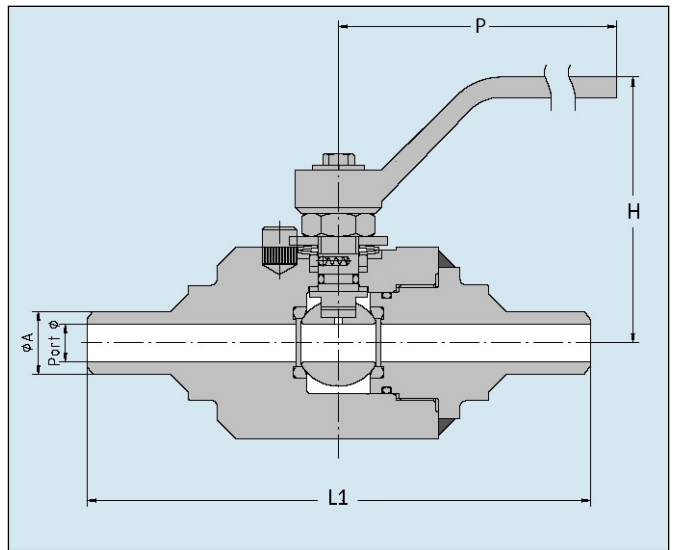
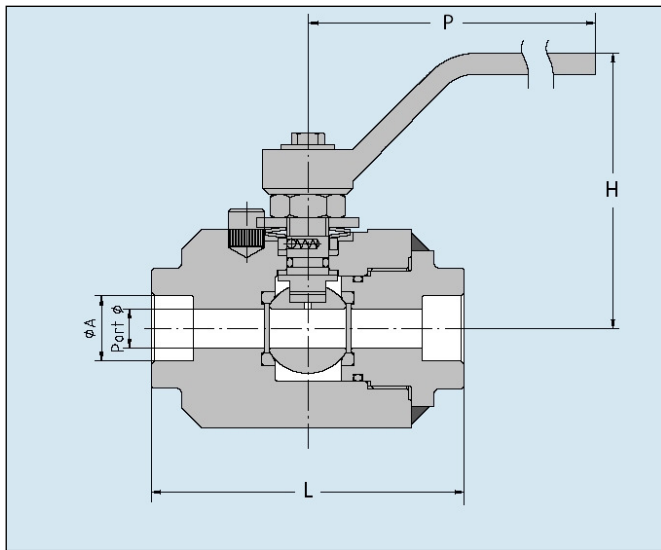
- Ball valves design according to ASME B16.34

- FSM according to API 607 - ISO 10497

Connections

- NPT thread: ANSI B1.20.1
- BSP thread: ISO228
- SW: Ansi B16.34
- BW: SW+Nipples Sch 40-80 (Ansi B16.25)

Page 11 for Construction and Materials



CLASS 2500

NPS		Port	Dimensions							
			L	L1	H	P	SW sch A		BW sch A	
RB	FB	RB					FB	RB	FB	
-	1/4"	7	104	300	92	200	-	14,1	-	-
-	3/8"	10					-	17,7	-	-
3/4"	1/2"	13					27,7	22,2	26,7	21,3
1"	3/4"	19					34,5	27,7	33,4	26,7
-	1"	25	120	320	96	350	-	34,5	-	33,4
2"	1 1/2"	38	140	340	110		62	49,6	60,3	48,3
-	2"	49	190	390	130		-	62	-	60,3
-	2"	49	210	410	145		-	62	-	60,3

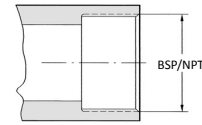
Dimensions: mm

HB Class 2500 - Construction and Standard Materials

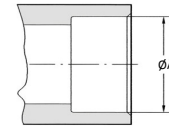
No.	Parts	Carbon Steel	Stainless Steel
1	Body	ASTM A105/A105N	ASTM A479 Type 316L
4	Body Connector	ASTM A105/A105N	ASTM A479 Type 316L
5	Stem	ASTM A564 Type 630 H1150D	
5A	Antistatic ball and spring	316 SS	
6	Gland	ASTM A479 Type 316	
8	Stop pin	Steel coated	Stainless steel
9	Stopper plate	Steel zinc plated	
11	Spring washer	Steel coated	Stainless steel
12	Nut	Steel coated	Stainless steel
21	Ball	ASTM A479 S31803	
22	Seat	DEVLON	
25	Gland packing	Flexible graphite	
26	Thurst washer	PEEK	
30	Handle	Ductile iron (Up to size 1")	
31	Handle head	Ductile iron (Size 1.1/2" and over)	
32	Handle bar	Carbon steel (Size 1.1/2" and over)	
35	Bolt	Steel coated	Stainless steel
36	Washer	Steel coated	Stainless steel
40A	Stem O'ring	FKM (AED)	
40B	Body O'ring	FKM (AED)	

END CONNECTIONS

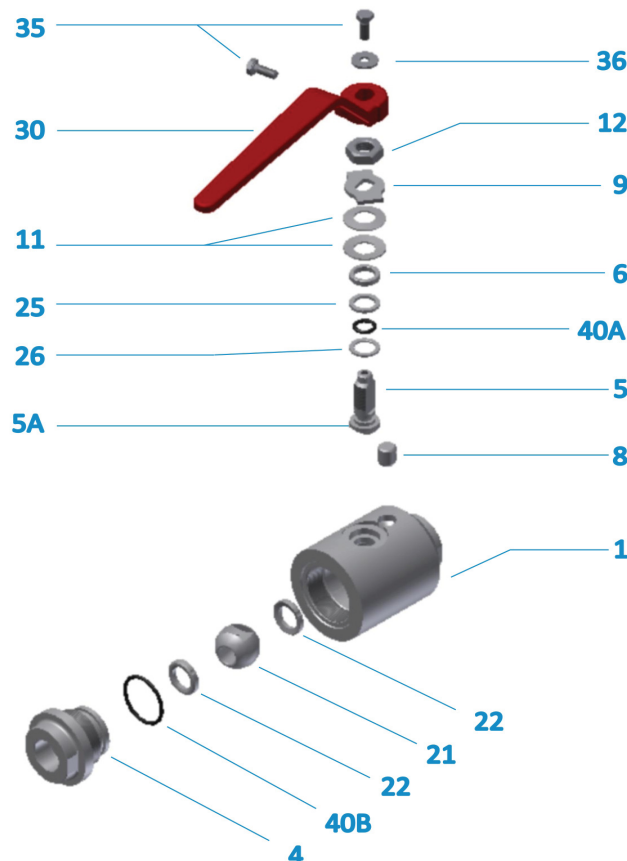
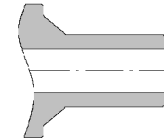
BSP
NPT



SW Sch
SW mm.



END: BW



All part numbers are corresponding with those shown in valve assembly drawings.

 **CAUTION**

Pressure-temperature ratings and other performance data published in this catalog have been developed from our design calculation, in-house testing, field reports provided by our customers and/or published official standards or specifications. They are good only to cover typical applications as a general guideline to users of KITZ products introduced in this catalog.

For any specific application, users are kindly requested to contact KITZ Corporation of Europe for technical advice, or to carry out their own study and evaluation for proving suitability of these products to such an application. Failure to follow this request could result in property damage and/or personal injury, for which we shall not be liable.

While this catalog has been compiled with the utmost care, we assume no responsibility for errors, impropriety or inadequacy. Any information provided in this catalog is subject to from time-to-time change without notice for error rectification, product discontinuation, design modification, new product introduction or any other cause that KITZ Corporation of Europe considers necessary. This edition cancels all previous issues.



Kitz Corporation of Europe S.A.
Ramón Viñas, 8
08930 Sant Adrià de Besòs
Barcelona
Spain - España
Ph. +34 93 462 14 08
Fax. +34 93 462 03 49
www.kitzeurope.com