

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

Reduced Bore Valve, 1 piece body construction

Features

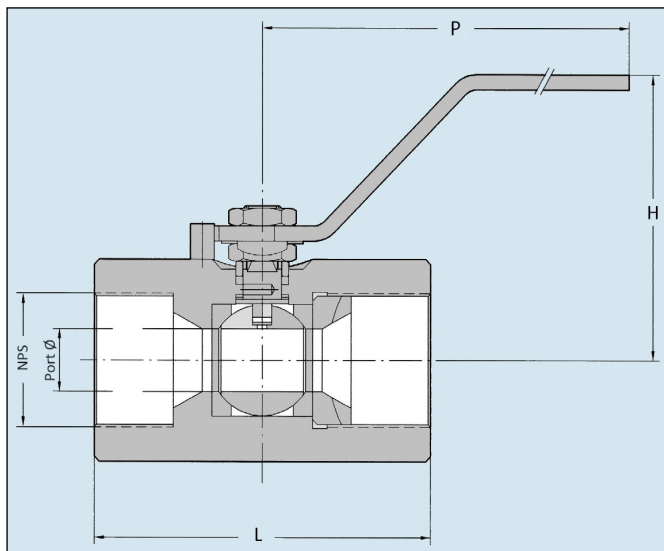
- Antistatic device
- Blowout-proof stem
- High performance PTFE ball seats

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

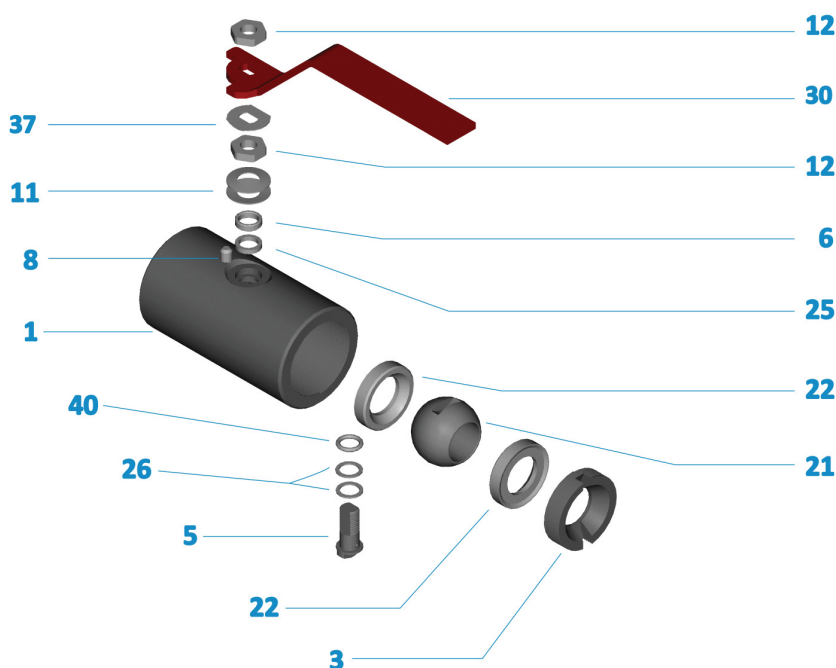
No.	Parts	Carbon Steel	Stainless Steel
1	Body	ASTM A105	ASTM A479/A182 Gr. 316L
3	Insert	ASTM A105	ASTM A479 316
5	Antistatic Stem	ASTM A479 Type 316	
6	Gland	ASTM A479 Type 316	
8	Stop Pin	Steel	DIN 267/11 A2-70
11	Spring washer	Blued steel	304CSP
12	Nut	DIN267/4 C 8 blued	DIN 267/11 A2-70
21	Ball	ASTM 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	

CLASS 800

Unit: mm

NPS	Port	Dimensions			Cv (m ³ /h)	Torque (N-m)			Weight (Kg)			
		L	H	P		50 bar	100 bar	140 bar				
1/4"	9.5	60	53	120	-	8	9	10	0,5			
3/8"					-							
1/2"					7							
3/4"	12,5	70	56		10	10	12	15	0,7			
1"	17	80	58		30							
1 1/2"	25	100	97	150	90					20	20	1,7
2"	32	110	102		130					20	25	-

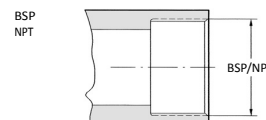
1 Cv = 1,16 Kv



Torque Values

The values shown are an average of the real values. These values have been taken under ideal conditions of clean water, room temperature, standard seats, daily handling and without safety rate.

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

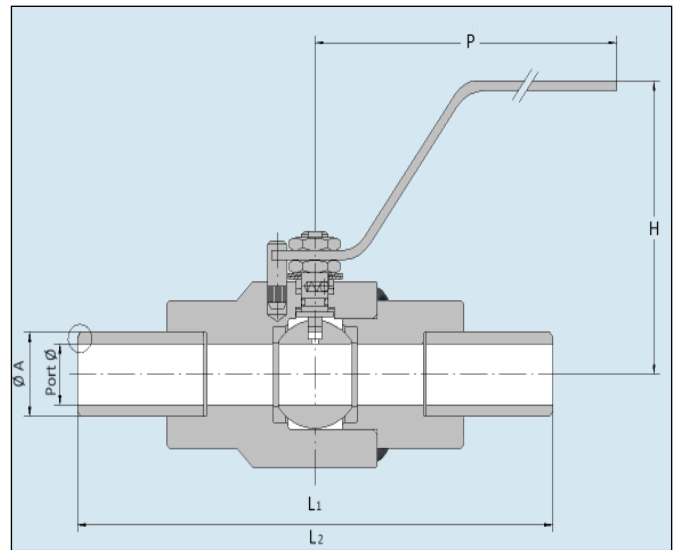
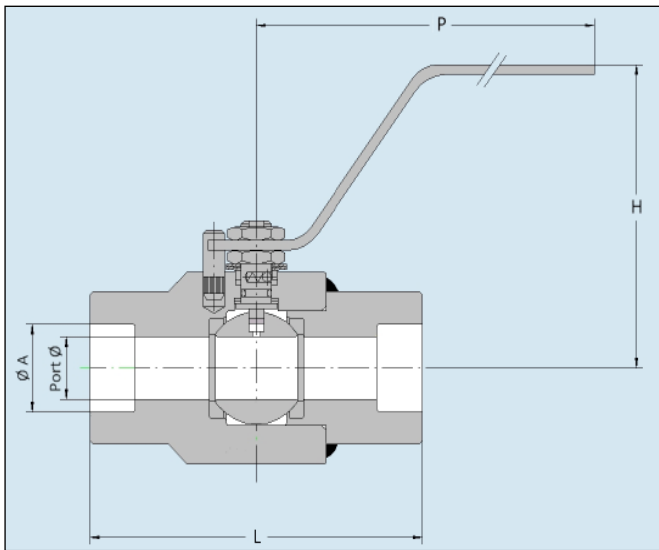
- Ball valves design according to EN 1983/B16.34

- 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)

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CLASS 800

Unit: mm

NPS		Port	Dimensions					Cv (m ³ /h)		Torque (N-m)			Weight (Kg)				
RB	FB		L	L ₁	L ₂	H	P	SW sch ØA	RB	FB	50 bar	100 bar	140 bar	(L)	(L ₁)	(L ₂)	
-	1/4"	12,5	90	240	400	85	150	RB	FB	-	12	8	9	10	1	1,1	1,2
-	3/8"							-	14,1							-	17,7
3/4"	1/2"	19	110			90	200	27,4	21,8	7	34	10	12	15	1,6	1,9	2,2
1"	3/4"									-	34,1	-	50	15	20	20	2,4
-	1"	25	120	100	105	49	-	55	-	20	25	-	3,4	3,8	4,3		
1 1/2"	-	32	130	110	110	61	49	90	120	25	35	-	5,6	6,2	6,8		
2"	1 1/2"	38	150	116	350	-	61	-	250	35	50	-	8,8	10	11,2		
-	2"	51	180														

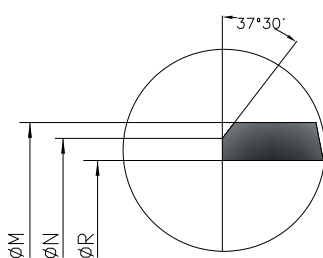
1 Cv = 1,16 Kv

Torque Values

The values shown are an average of the real values. These values have been taken under ideal conditions of clean water, room temperature, standard seats, daily handling and without safety rate.

Execution BW = SW + Nipple

Unit: mm

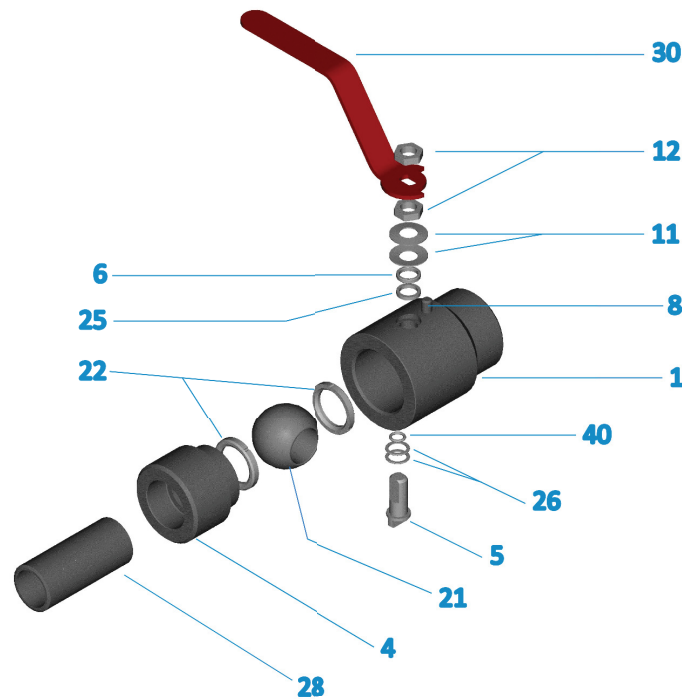
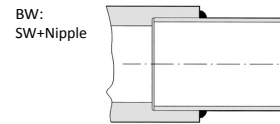
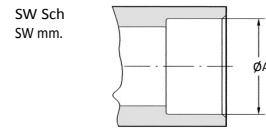
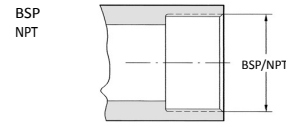


NPS	ØM	Sch 10S		Sch 40S		Sch 80		Sch 160	
		ØN	ØR	ØN	ØR	ØN	ØR	ØN	ØR
1/2"	21,3	-	17,1	-	15,8	-	13,9	15,0	11,8
3/4"	26,7	-	22,5	-	21,0	-	18,9	18,8	15,6
1"	33,4	31,1	27,9	29,8	26,6	27,5	24,3	23,9	20,7
1 1/2"	48,3	46,0	42,8	44,1	40,9	41,3	38,1	37,2	34,0
2"	60,3	58,0	54,8	55,7	52,5	52,4	49,2	46,1	42,9
Cod.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

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



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

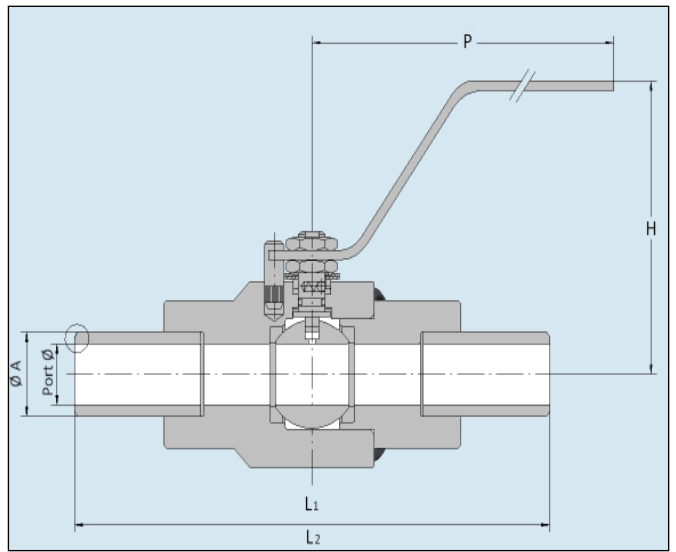
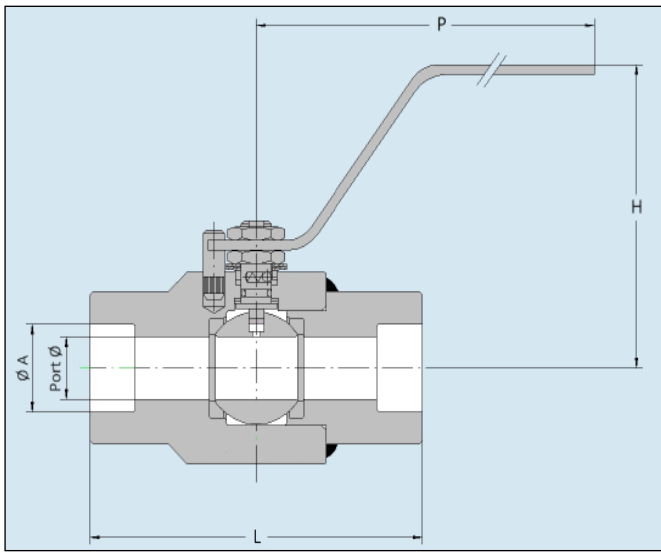
- Ball valves design according to BS EN 12516

- 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)

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CLASS 900

Unit: mm

NPS		Port	Dimensions					Cv (m³/h)		Torque (N-m)			Weight (Kg)				
RB	FB		L	L1	L2	H	P	RB	FB	50 bar	100 bar	140 bar	(L)	(L1)	(L2)		
-	1/4"	12,5	90	240	400	85	150	-	14,1	-	12	8	9	10	1	1,1	1,2
-	3/8"							-	17,7							1,2	1,4
3/4"	1/2"							27,4	21,8	7	1,3	1,6					
1"	3/4"	19	110	260	400	95	200	34,1	27,4	20	34	10	12	15	1,6	1,9	2,2
-	1"	25	120			100		-	34,1	-	50	15	20	20	2,4	2,8	3,2
1 1/2"	-	32	130			105		49	-	55	-	20	25	-	3,4	3,8	4,3
2"	1 1/2"	38	150	110	61	49	90	120	25	35	-	5,6	6,2	6,8			
-	2"	51	180	116	350	-	61	-	250	35	50	-	8,8	10	11,2		

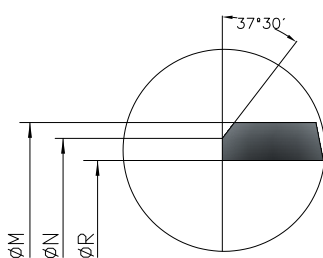
1 Cv = 1,16 Kv

Torque Values

The values shown are an average of the real values. These values have been taken under ideal conditions of clean water, room temperature, standard seats, daily handling and without safety rate.

Execution BW = SW + Nipple

Unit: mm



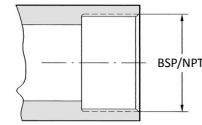
NPS	ØM	Sch 10S		Sch 40S		Sch 80		Sch 160	
		ØN	ØR	ØN	ØR	ØN	ØR	ØN	ØR
1/2"	21,3	-	17,1	-	15,8	-	13,9	15,0	11,8
3/4"	26,7	-	22,5	-	21,0	-	18,9	18,8	15,6
1"	33,4	31,1	27,9	29,8	26,6	27,5	24,3	23,9	20,7
1 1/2"	48,3	46,0	42,8	44,1	40,9	41,3	38,1	37,2	34,0
2"	60,3	58,0	54,8	55,7	52,5	52,4	49,2	46,1	42,9
Cod.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

HB Class 900 - Construction and Standard Materials

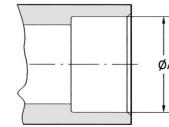
No.	Parts	Carbon Steel	Stainless Steel
1	Body	ASTM A105	ASTM A479 316L
4	Body Connector	ASTM A105	ASTM A479 316L
5	Antistatic Stem	ASTM A564 Type 630	
6	Gland	ASTM A479 Type 316	
8	Stop Pin	Steel	DIN 267/11 A2-70
9	Stop plate (DN>1")	Steel	
11	Spring washer	Blued steel	304CSP
12	Nut	DIN 267/3 C 8 .8 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

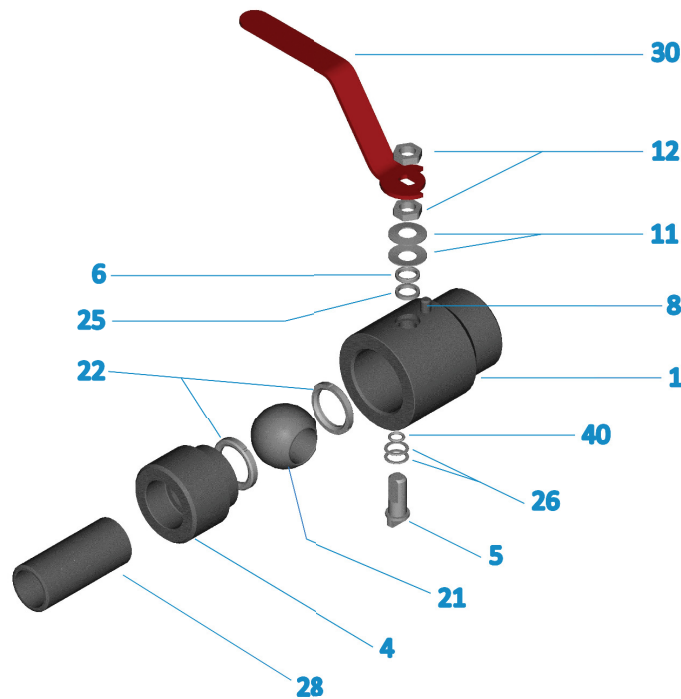
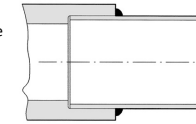
BSP
NPT



SW Sch
SW mm.



BW:
SW+Nipple



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