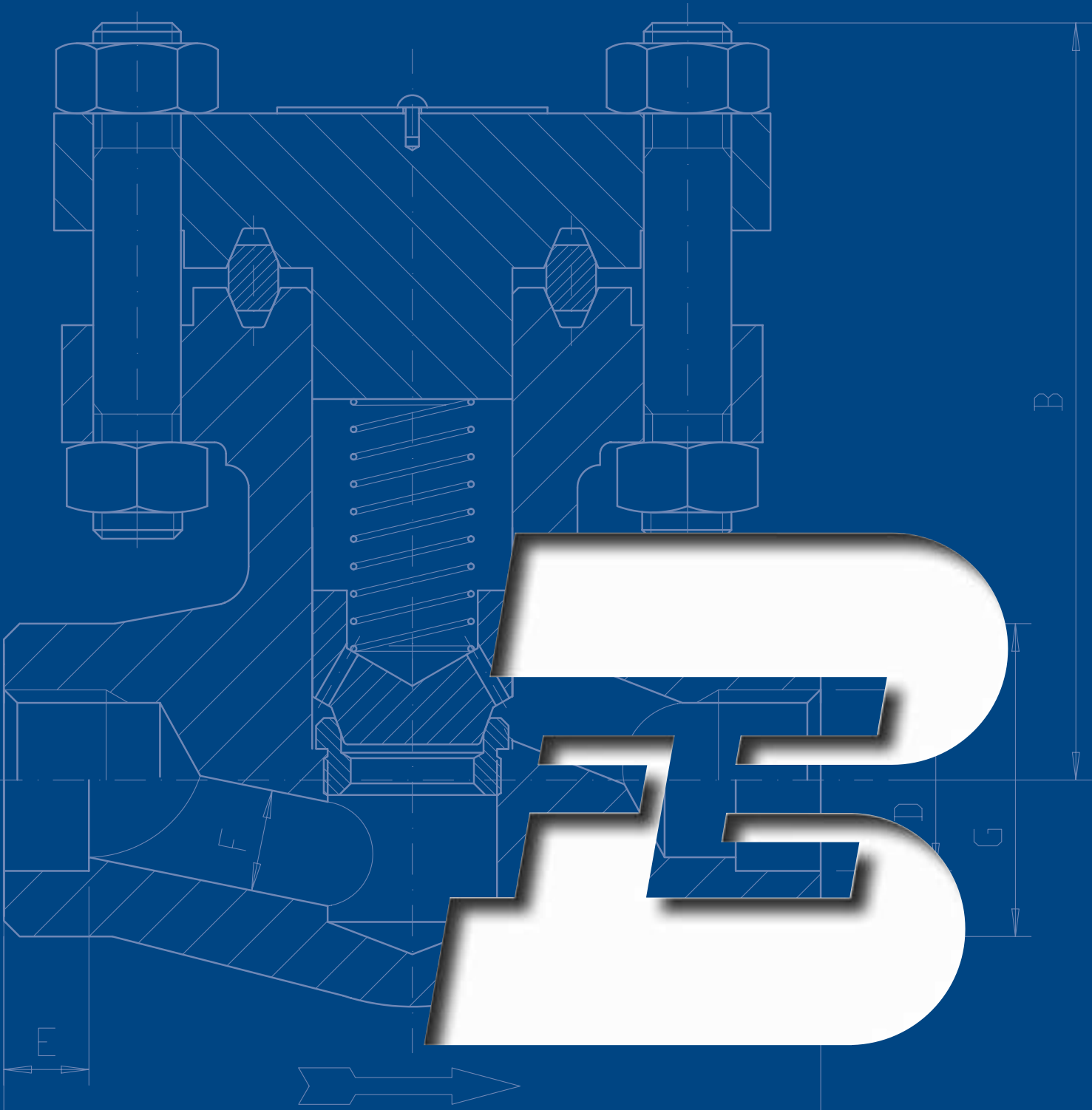


CHECK VALVES



CHECK VALVES

BOLTED BONNET

CLASS	FIGURE		
	Piston	Ball	Swing
800 FB	H 400	H 500	H 600
800 RB	HL 400	HL 500	HL 600
1500 FB	9H 400	9H 500	9H 600
1500 RB	9HL 400	9HL 500	9HL 600
1500 FB	H9R 400	H9R 500	H9R 600
2500 FB	25HR 400	25HR 500	25HR 600

WELDED BONNET

CLASS	FIGURE		
	Piston	Ball	Swing
800 FB	W 400	W 500	WH 600
800 RB	WL 400	WL 500	WHL 600
1500 FB	9W 400	9W 500	9WH 600
1500 RB	9WL 400	9WL 500	9WHL 600
2500 FB	25W 400	25W 500	
4500 FB	45WH 400	45WH 500	

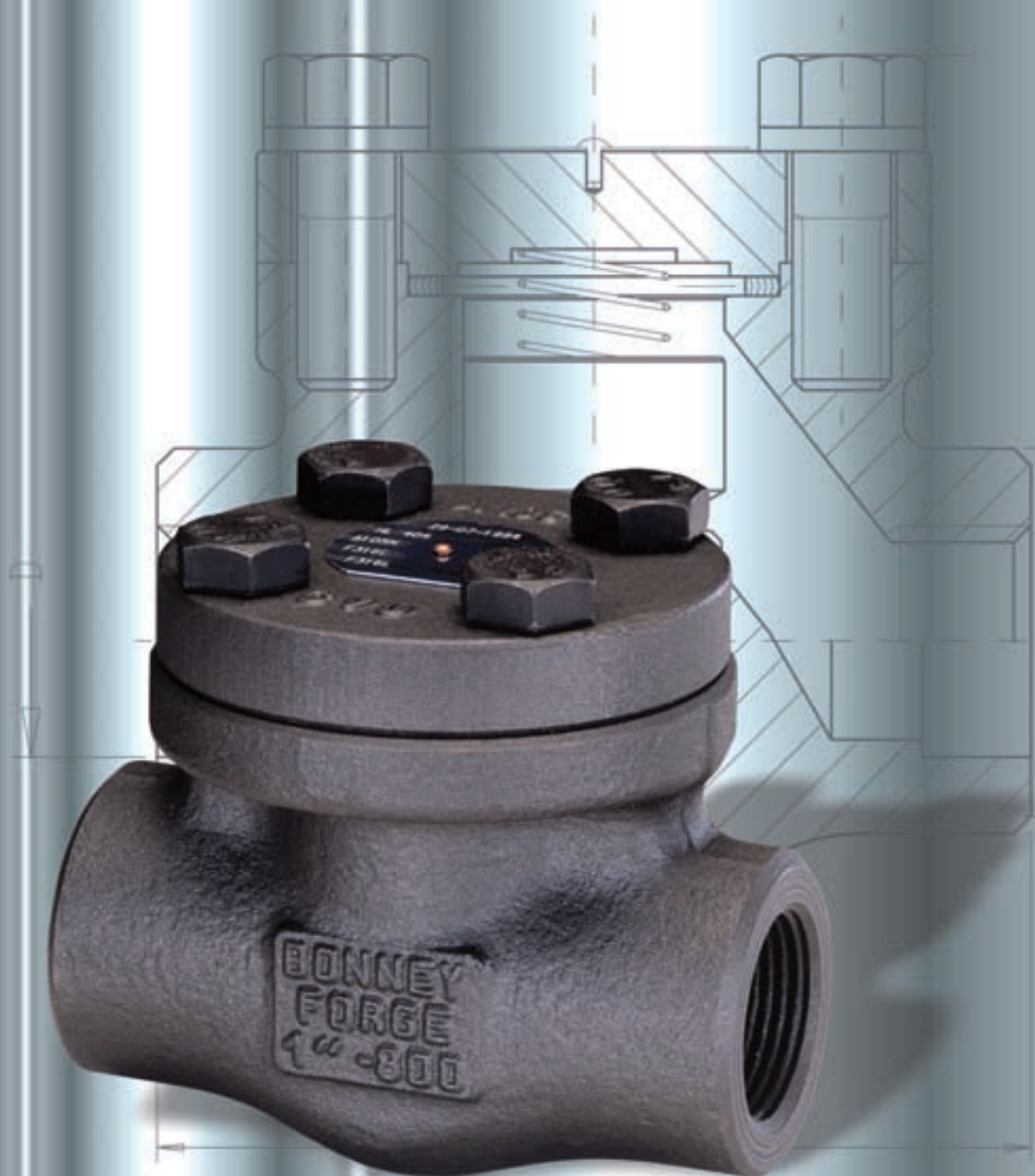
Y PATTERN WELDED BONNET

CLASS	FIGURE		
	Piston	Ball	-
800 FB	Y 400	Y 500	-
1500 FB	9Y 400	9Y 500	-
2500 FB	25Y 400	25Y 500	-
4500 FB	45Y 400	45Y 500	-

CHECK VALVES

CLASS 800-1500

BOLTED BONNET - Full and reduced bore



Design construction:
 BS 5352 - NF M87.412
 Testing according to API 598 - BS 6755
 Marking MSS SP25

Ratings:
 - carbon steel class 800 1975 psig @ 100°F
 138 bar + 38°C
 - carbon steel class 1500 3705 psig @ 100°F
 255 bar + 38°C

Socket weld Ends to ANSI B16.11
 Screwed Ends (NPT) to ANSI B1.20.1
 Butt Welding Ends to ANSI B.16.25

For materials and testing pressure see technical data

Spring only on request
 Spiral-wound gasket retained type

CLASS 800

FULL BORE - Type H 400 - H 500 - H 600									
SIZE	inch	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
	mm	6	10	15	20	25	32	40	50
A		80*	80	90	110	127	150	180	210
B		55	55	60	78	88	92	108	145
F Piston / F Ball		7	9	13	17,5	22,5	29,5	35	45
F Swing		8	9,6	14	18	24	30	36,6	48
G		32	32	38	48	56	64	78	85
WEIGHT kg ≅		1,4	1,4	1,6	3	4,3	5,6	10	16
FIGURE Piston		H 401	H 402	H 403	H 404	H 405	H 406	H 407	H 408
Ball		H 501	H 502	H 503	H 504	H 505	H 506	H 507	H 508
Swing		H 601	H 602	H 603	H 604	H 605	H 606	H 607	H 608
GASKET		G2	G2	G2	G3	G4	G6	G7	G9

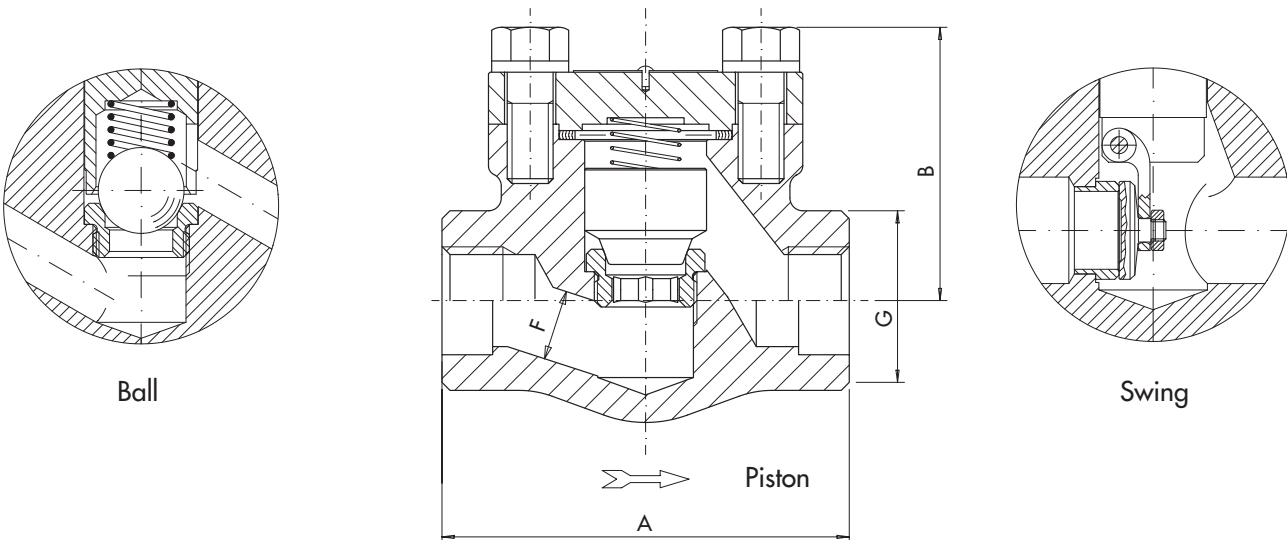
REDUCED BORE - Type HL 400 - HL 500 - HL 600						
SIZE	inch	1/2	3/4	1	1.1/2	2
	mm	15	20	25	40	50
A		80	90	110	150	180
B		55	60	78	92	108
F Piston / F Ball		9	13	17,5	29,5	35
F Swing		9,6	14	18	30	36,6
G		32	38	48	64	78
WEIGHT kg ≅		1,3	1,6	2,8	5,6	9,0
FIGURE Piston		HL 403	HL 404	HL 405	HL 407	HL 408
Ball		HL 503	HL 504	HL 505	HL 507	HL 508
Swing		HL 603	HL 604	HL 605	HL 607	HL 608
GASKET		G2	G2	G3	G6	G7

* For swing type only A = 90

CLASS 1500

FULL BORE - Type 9H 400 - 9H 500 - 9H 600									
SIZE	inch	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
	mm	6	10	15	20	25	32	40	50
A		90	90	110	127	150	180	210	210
B		60	60	78	88	92	108	145	150
F Piston / F Ball		7	9	12	15	20	27	32	40
F Swing		-	-	14	18	24	30	36,6	48
G		38	38	48	56	64	78	85	95
WEIGHT kg ≅		1,7	1,7	3,1	4,6	6,5	10,6	19	19
FIGURE Piston		9H 401	9H 402	9H 403	9H 404	9H 405	9H 406	9H 407	9H 408
Ball		9H 501	9H 502	9H 503	9H 504	9H 505	9H 506	9H 507	9H 508
Swing		-	-	9H 603	9H 604	9H 605	9H 606	9H 607	9H 608
GASKET		G1	G1	G2	G3	G4	G5	G7	G8

REDUCED BORE - Type 9HL 400 - 9HL 500 - 9HL 600						
SIZE	inch	1/2	3/4	1	1.1/2	2
	mm	15	20	25	40	50
A		90	110	127	180	210
B		60	78	88	108	145
F Piston / F Ball		9	12	15	27	32
F Swing		9,6	14	18	30	36,6
G		38	48	56	78	85
WEIGHT kg ≅		1,7	3	4,4	10	18
FIGURE Piston		9HL 403	9HL 404	9HL 405	9HL 407	9HL 408
Ball		9HL 503	9HL 504	9HL 505	9HL 507	9HL 508
Swing		9HL 603	9HL 604	9HL 605	9HL 607	9HL 608
GASKET		G1	G2	G3	G5	G7



CHECK VALVES

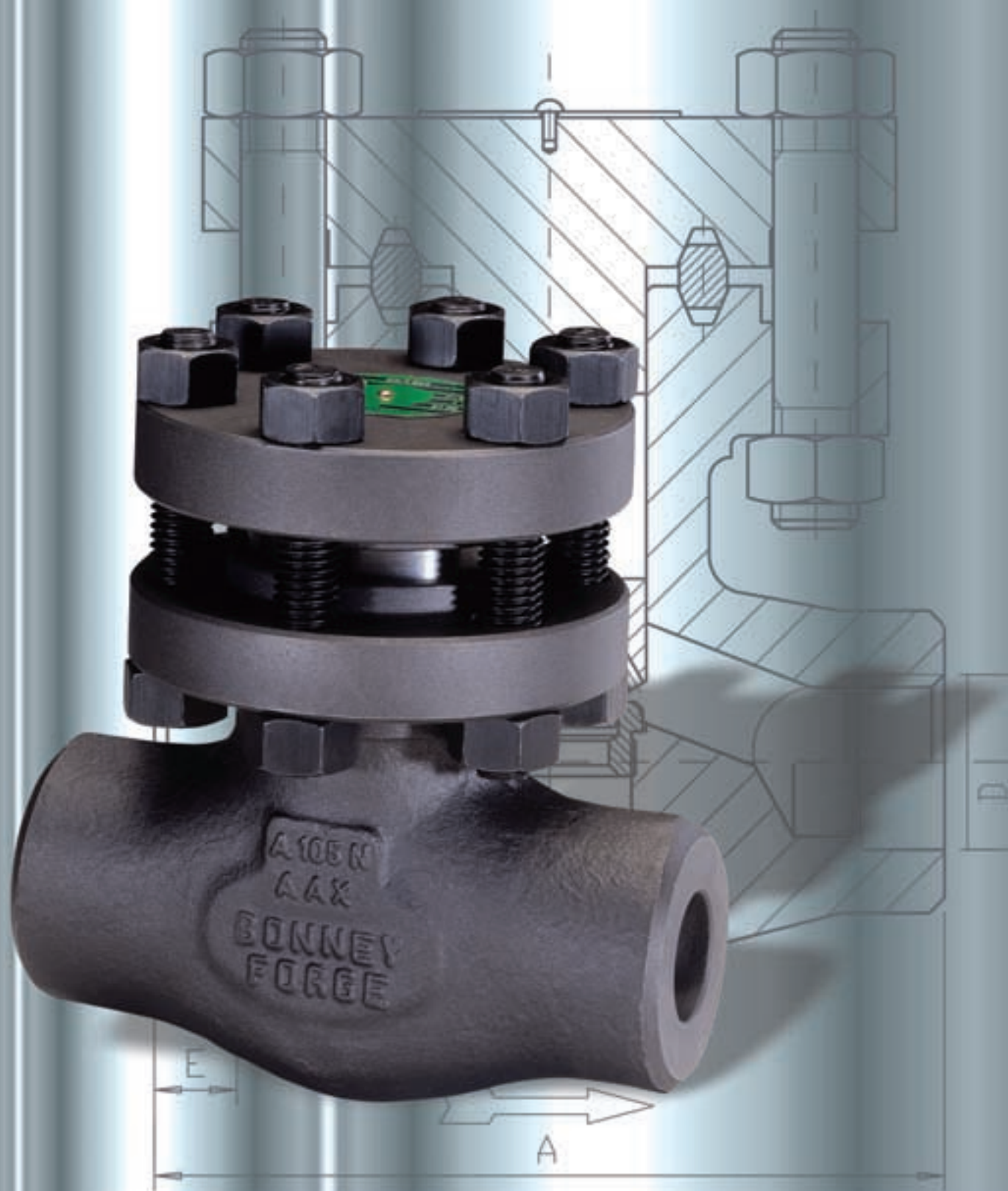
PISTON - BALL - SWING



CHECK VALVES

CLASS 1500-2500

BOLTED BONNET - Full bore



Design construction:
 BS 5352 - ANSI B16.34 - NF M87.412
 Testing according to API 598 - BS 6755
 Marking MSS SP25

Socket weld Ends to ANSI B16.11
 Screwed Ends (NPT) to ANSI B1.20.1
 Butt Welding Ends to ANSI B.16.25

Spring only on request
 Spiral-wound gasket retained type

For materials and testing pressure see technical data

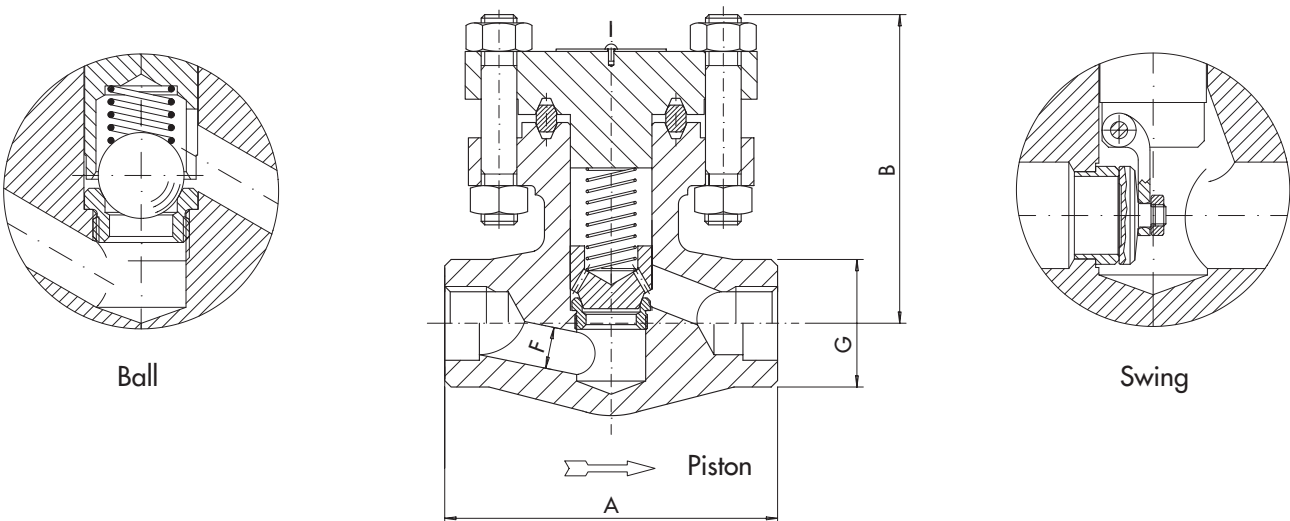
Ratings standard class:
 - carbon steel class 1500 3705 psig @ 100°F
 255 bar + 38°C
 - carbon steel class 2500 6170 psig @ 100°F
 425 bar + 38°C

CLASS 1500

FULL BORE - Type H9R 400 - H9R 500 - H9R 600						
SIZE	inch	1/2	3/4	1	1.1/2	2
	mm	15	20	25	40	50
A		110	150	150	210	230
B		96	128	128	155	195
F Piston / F Ball		12	15	19	32	38
F Swing		14	18	24	36,6	48
G		38	55	55	75	92
WEIGHT kg ≅		3,2	7,3	7,3	17	29
FIGURE	Piston	H9R 403	H9R 404	H9R 405	H9R 407	H9R 408
	Ball	H9R 503	H9R 504	H9R 505	H9R 507	H9R 508
	Swing	H9R 603	H9R 604	H9R 605	H9R 607	H9R 608
GASKET		R12	R17	R17	R20	R24

CLASS 2500

FULL BORE - Type 25HR 400 - 25HR 500 - 25HR 600						
SIZE	inch	1/2	3/4	1	1.1/2	2
	mm	15	20	25	40	50
A		150	150	210	230	230
B		128	128	152	190	190
F Piston / F Ball		11	14,5	19	28	35
F Swing		11,5	15	19,5	28	35
G		55	55	75	95	95
WEIGHT kg ≅		7,5	7,5	18,5	30	30
FIGURE	Piston	25HR 403	25HR 404	25HR 405	25HR 407	25HR 408
	Ball	25HR 503	25HR 504	25HR 505	25HR 507	25HR 508
	Swing	25HR 603	25HR 604	25HR 605	25HR 607	25HR 608
GASKET		R16	R16	R17	R20	R20



CHECK VALVES

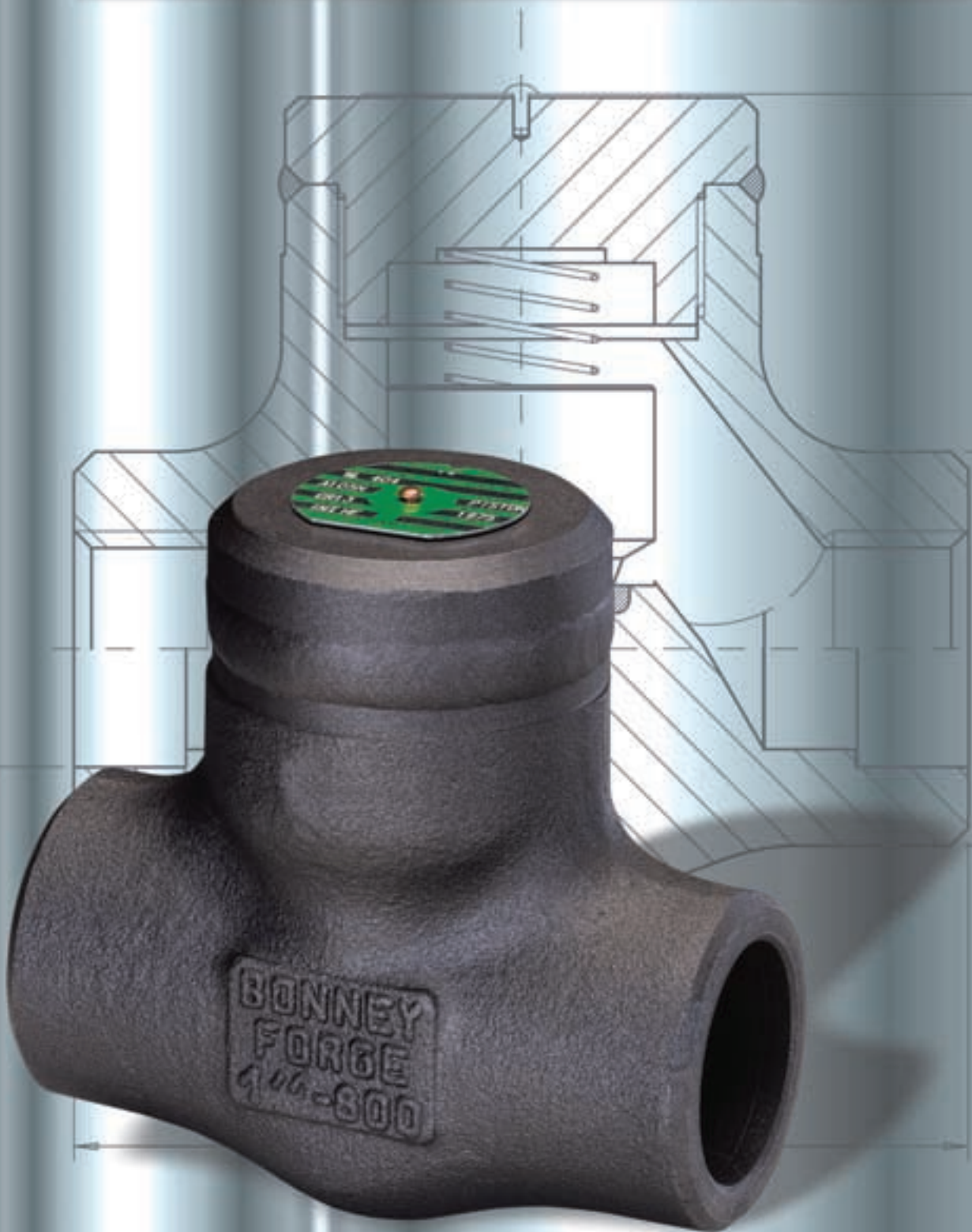
PISTON - BALL - SWING



CHECK VALVES

CLASS 800-1500

WELDED BONNET - Full and reduced bore



Design construction:
 BS 5352 - ANSI B16.34 - NF M87.412
 Testing according to API 598 - BS 6755
 Marking MSS SP25

Socket weld Ends to ANSI B16.11
 Screwed Ends (NPT) to ANSI B1.20.1
 Butt Welding Ends to ANSI B.16.25

Spring only on request
 Body bonnet weld to ASME IX

Ratings:
 - carbon steel class 800 1975 psig @ 100°F
 138 bar + 38°C
 - carbon steel class 1500 3705 psig @ 100°F
 255 bar + 38°C

For materials and testing pressure see technical data

CLASS 800

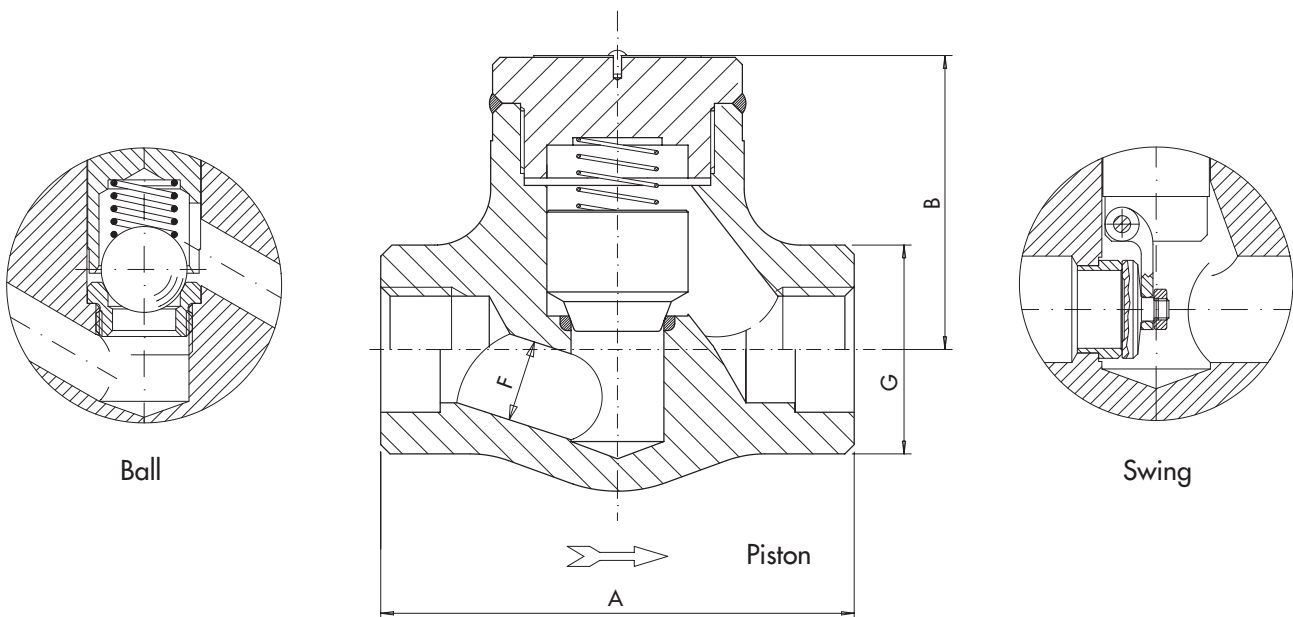
FULL BORE - Type W 400 - W 500 - WH 600									
SIZE	inch	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
	mm	6	10	15	20	25	32	40	50
A		80	80	90	110	127	150	180	210
B		55	55	60	78	88	92	110	150
F Piston / F Ball		7	9	13	17,5	22,5	29,5	35	45
F Swing		8	9,6	14	18	24	30	36,6	48
G		32	32	38	48	56	64	78	85
WEIGHT kg ≅		1	1	1,2	2,3	3,3	5,2	8,7	14
FIGURE	Piston	W 401	W 402	W 403	W 404	W 405	W 406	W 407	W 408
	Ball	W 501	W 502	W 503	W 504	W 505	W 506	W 507	W 508
	Swing	WH 601	WH 602	WH 603	WH 604	WH 605	WH 606	WH 607	WH 608

REDUCED BORE - Type WL 400 - WL 500 - WHL 600						
SIZE	inch	1/2	3/4	1	1.1/2	2
	mm	15	20	25	40	50
A		80	90	110	150	180
B		54	60	76	92	110
F Piston / F Ball		9	13	17,5	29,5	35
F Swing		9,6	14	18	30	36,6
G		32	38	48	64	78
WEIGHT kg ≅		0,9	1,1	2,3	5	8,3
FIGURE	Piston	WL 403	WL 404	WL 405	WL 407	WL 408
	Ball	WL 503	WL 504	WL 505	WL 507	WL 508
	Swing	WHL 603	WHL 604	WHL 605	WHL 607	WHL 608

CLASS 1500

FULL BORE - Type 9W 400 - 9W 500 - 9WH 600									
SIZE	inch	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
	mm	6	10	15	20	25	32	40	50
A		90	90	110	127	150	180	210	230
B		55	55	76	84	90	110	150	230
F Piston / F Ball		7	9	12	15	20	27	32	40
F Swing		8	9,6	14	18	24	30	36,6	48
G		38	38	48	56	64	78	85	95
WEIGHT kg ≅		1,4	1,4	2,5	3,7	6	10	15,5	22
FIGURE	Piston	9W 401	9W 402	9W 403	9W 404	9W 405	9W 406	9W 407	9W 408
	Ball	9W 501	9W 502	9W 503	9W 504	9W 505	9W 506	9W 507	9W 508
	Swing	9WH 601	9WH 602	9WH 603	9WH 604	9WH 605	9WH 606	9WH 607	9WH 608

REDUCED BORE - Type 9WL 400 - 9WL 500 - 9WHL 600						
SIZE	inch	1/2	3/4	1	1.1/2	2
	mm	15	20	25	40	50
A		90	110	127	180	210
B		54	76	86	110	150
F Piston / F Ball		9	12	15	27	32
F Swing		9,6	14	18	30	36,6
G		38	48	56	78	85
WEIGHT kg ≅		1,4	2,2	3	9,6	16
FIGURE	Piston	9WL 403	9WL 404	9WL 405	9WL 407	9WL 408
	Ball	9WL 503	9WL 504	9WL 505	9WL 507	9WL 508
	Swing	9WHL 603	9WHL 604	9WHL 605	9WHL 607	9WHL 608



CHECK VALVES

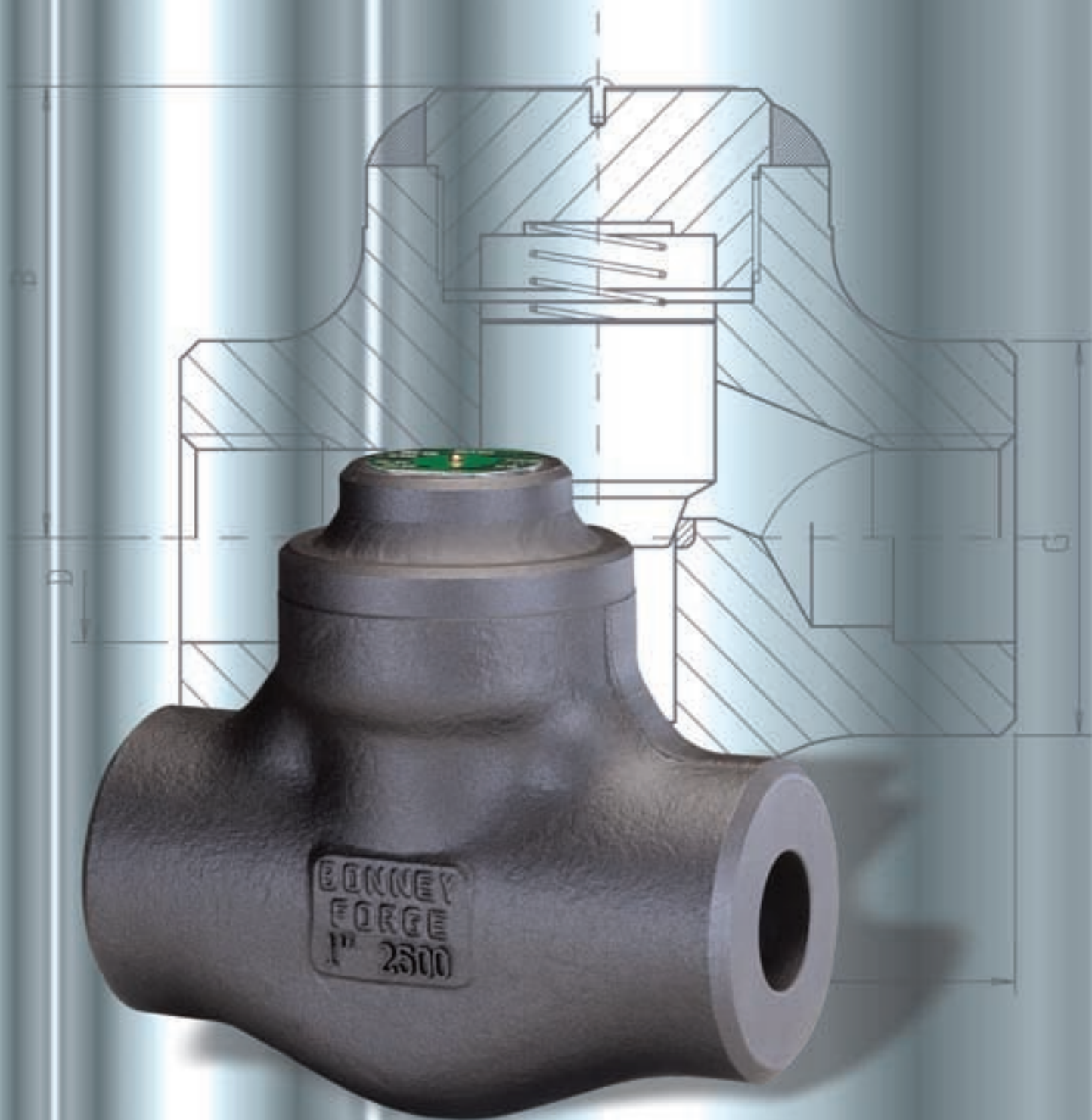
PISTON - BALL - SWING



CHECK VALVES

CLASS 2500-4500

WELDED BONNET - Full bore



Design construction:
ANSI B16.34
Testing according to API 598 - BS 6755
Marking MSS SP25

Socket weld Ends to ANSI B16.11
Screwed Ends (NPT) to ANSI B1.20.1
Butt Welding Ends to ANSI B.16.25

Spring only on request
Body bonnet weld to ASME IX

For materials and testing pressure see technical data

Ratings:
- carbon steel class 2500 6170 psig @ 100°F
425 bar + 38°C
- carbon steel class 4500 11110 psig @ 100°F
765 bar + 38°C

CLASS 2500

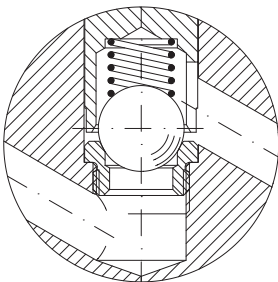
FULL BORE - Type 25W 400 - 25W 500

SIZE	inch	1/4	3/8	1/2	3/4	1	1.1/2	2
	mm	6	10	15	20	25	40	50
A		110	110	127	150	180	210	230
B		70	70	86	92	110	150	180
F		7	9	11	14,5	19	28	35
G		48	48	56	64	78	85	95
WEIGHT kg \cong		3,2	3,2	3,8	5,6	10	16	21
FIGURE	Piston	25W 401	25W 402	25W 403	25W 404	25W 405	25W 407	25W 408
	Ball	25W 501	25W 502	25W 503	25W 504	25W 505	25W 507	25W 508

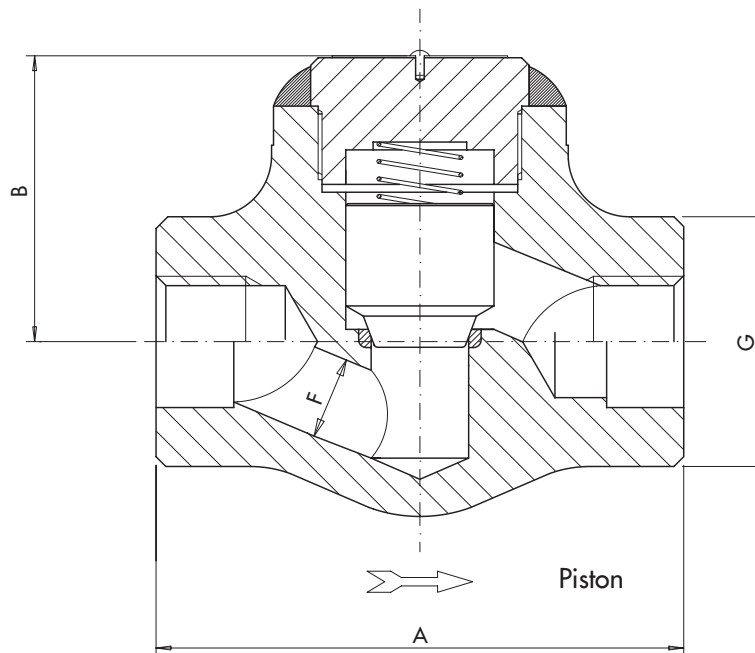
CLASS 4500

FULL BORE - Type 45WH 400 - 45WH 500

SIZE	inch	1/4	3/8	1/2	3/4	1	1.1/2	2
	mm	6	10	15	20	25	40	50
A		127	127	127	180	180	230	230
B		90	90	90	110	110	180	195
F		7	7	8	11	14	25	32
G		56	56	56	78	78	95	120
WEIGHT kg \cong		3,9	3,9	3,9	10,5	10,5	25,2	27
FIGURE	Piston	45WH 401	45WH 402	45WH 403	45WH 404	45WH 405	45WH 407	45WH 408
	Ball	45WH 501	45WH 502	45WH 503	45WH 504	45WH 505	45WH 507	45WH 508



Ball



CHECK VALVES

PISTON - BALL



CHECK VALVES

CLASS 800-1500-2500-4500

WELDED BONNET - Full bore (Y type)



Design construction:
ANSI B16.34 - BS 5352 - NF M87.412
Testing according to API 598 - BS 6755
Marking MSS SP25

Body bonnet weld to ASME IX
Spring only request
Socket weld Ends to ANSI B16.11
Screwed Ends (NPT) to ANSI B1.20.1
Butt Welding Ends to ANSI B.16.25

Ratings:
- carbon steel class 800 1975 psig @ 100°F
138 bar + 38°C
- carbon steel class 1500 3705 psig @ 100°F
255 bar + 38°C
- carbon steel class 2500 6170 psig @ 100°F
425 bar + 38°C
- carbon steel class 4500 11110 psig @ 100°F
765 bar + 38°C

For materials and testing pressure see technical data

CLASS 800

FULL BORE - Type Y 400 - Y 500									
SIZE	inch	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
	mm	6	10	15	20	25	32	40	50
A		85	85	85	105	120	165	165	190
B		70	70	70	90	100	130	130	160
F		7	9	13	17,5	22,5	29,5	35	45
G		38	38	38	48	56	78	78	85
WEIGHT kg ≅		1,2	1,2	1,2	2,3	3	8	8	12
FIGURE	Piston	Y 401	Y 402	Y 403	Y 404	Y 405	Y 406	Y 407	Y 408
	Ball	Y 501	Y 502	Y 503	Y 504	Y 505	Y 506	Y 507	Y 508

CLASS 2500

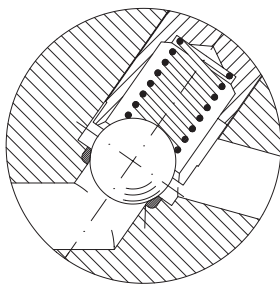
FULL BORE - Type 25Y 400 - 25Y 500									
SIZE	inch	1/4	3/8	1/2	3/4	1	1.1/2	2	
	mm	6	10	15	20	25	40	50	
A		105	105	120	165	165	190	220	
B		85	85	95	115	120	145	185	
F		7	9	11	14,5	19	28	35	
G		48	48	56	78	78	85	95	
WEIGHT kg ≅		3,2	3,2	3,7	9	9	13,5	20	
FIGURE	Piston	25Y 401	25Y 402	25Y 403	25Y 404	25Y 405	25Y 407	25Y 408	
	Ball	25Y 501	25Y 502	25Y 503	25Y 504	25Y 505	25Y 507	25Y 508	

CLASS 1500

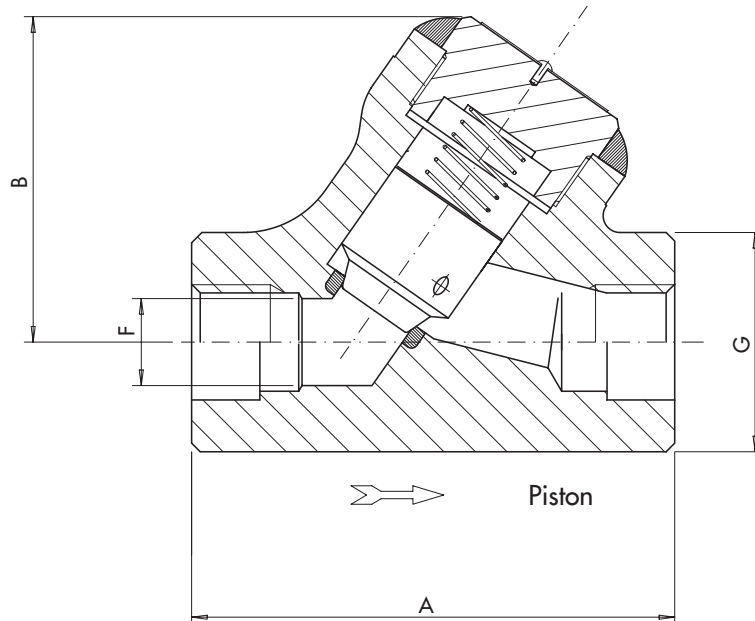
FULL BORE - Type 9Y 400 - 9Y 500									
SIZE	inch	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
	mm	6	10	15	20	25	32	40	50
A		85	85	105	120	165	165	190	220
B		70	70	90	100	130	130	160	195
F		7	9	12	15	20	27	32	40
G		38	38	48	56	78	78	85	95
WEIGHT kg ≅		1,2	1,2	2,4	3,6	9,3	13	13,5	18
FIGURE	Piston	9Y 401	9Y 402	9Y 403	9Y 404	9Y 405	9Y 406	9Y 407	9Y 408
	Ball	9Y 501	9Y 502	9Y 503	9Y 504	9Y 505	9Y 506	9Y 507	9Y 508

CLASS 4500

REDUCED BORE - Type 45Y 400 - 45Y 500									
SIZE	inch	1/4	3/8	1/2	3/4	1	1.1/2	2	
	mm	6	10	15	20	25	40	50	
A		120	120	120	165	165	220	230	
B		95	95	95	115	120	185	195	
F		7	7	8	11	14	25	32	
G		56	56	56	78	78	95	120	
WEIGHT kg ≅		3,7	3,7	3,7	9	9	20	23	
FIGURE	Piston	45Y 401	45Y 402	45Y 403	45Y 404	45Y 405	45Y 407	45Y 408	
	Ball	45Y 501	45Y 502	45Y 503	45Y 504	45Y 505	45Y 507	45Y 508	



Ball



Piston

CHECK VALVES

PISTON - BALL

