Check Valve Index

Press. Class	Material	Bonnet Joint	End Connection	Type	SERIES
150	A105	Bolted	Flanged	Piston	573
		Bolted	Thd/SW	Piston	See Class 800
		Bolted	Flanged	Swing	S 673
	A350 LF2	Bolted	Flanged	Piston	32573
300	A105	Bolted	Flanged	Piston	583
		Bolted	Thd/Sw	Piston	See Class 800
		Bolted	Flanged	Swing	S 683
	A350 LF2	Bolted	Flanged	Piston	32583
600	A105	Bolted	Flanged	Piston	593
		Bolted	Thd/SW	Piston	See Class 800
		Bolted	Flanged	Swing	S 693
	A350 LF2	Bolted	Flanged	Piston	32593
800	A105		Threaded	Piston	701,701ZL,710,13701
				Ball	B701,B710
				Swing	4835, S701
			Socket Weld	Piston	SW701,SW710,SW13701
				Ball	SWB701, SWB710
				Swing	SW4835, SWS701
		No	Threaded	Swing	S74
			Socket Weld	Swing	SWS74
		Union	Threaded	Piston	9091
				Ball	B9091, 54853
			Socket Weld	Piston	SW9091
				Ball	SWB9091, SW5483
	A182 F316/F316L	Bolted	Threaded	Piston	718
			Socket Weld	Piston	SW718
			Threaded	Swing	S718
			Socket Weld	Swing	SWS718
			Threaded	Ball	B718
			Socket Weld	Ball	SWB718
		Union	Threaded	Ball	54863
	A182 F316H	Bolted	Threaded	piston	82718
			Socket Weld	Piston	SW82718
	A350 LF2	Bolted	Threaded	Piston	32701
			Socket Weld	Piston	SW32701
1500	A105	Bolted	Threaded	Piston	15701
				Ball	B15701
			Socket Weld	Piston	SW15701
				Ball	SWB15701
			Flanged	Piston	15593
1690	A105	Weld	Threaded	Piston	1610
			Socket Weld	Piston	SW1610
	A182 F22, CL. 3	Weld	Threaded	Piston	1622
			Socket Weld	Piston	SW1622
2680	A105	Weld	Threaded	Piston	2610
			Socket Weld	Piston	SW2610
	A182 F11, CL. 2	Weld	Threaded	Piston	2611
			Socket Weld	Piston	SW2611
	A182 F22, CL. 3	Weld	Threaded	Piston	2622
			Socket Weld	Piston	SW2622

Hydraulic Check Valve Index

Press. Class	Material	Bonnet Joint	End Connection	Bonnet Type	SERIES
3000	A105	Screw	Threaded	Piston	1551, 2191
			Socket Weld	Piston	SW1551, SW2191
			Threaded	Ball	B1551
			Socket Weld	Ball	SWB1551
6000	A105	Screw	Threaded	Piston	4881
			Socket Weld	Piston	SW4881

Description of Series Number System for Vogt Valves

(Order Vogt Valves & Fittings by size—series number)

Prefix:

This maximum 3 alphameric letter beginning the Vogt Valve series number is normally indicative of the valve connection. Historically, a few design features have also been used as part of the prefix including **S**, **B** and **R**. A fully female threaded valve as the traditional Vogt standard does not have a prefix number (see below for prefix descriptions).

Suffix:

This maximum 3 alphameric character ending of the Vogt Valve series number is normally indicative of the valve internal trim package. Historically, packing and a few design features have also been used as part of the suffix number including **T, B** and **ER.** A valve with the traditional Vogt standard trim package and packing is not assigned a suffix number (see below for suffix descriptions).

Series Number (typical)

SW 12111 F8M

Prefix Description:

(Blank) - Female NPT (both ends)
B - Ball Check (female NPT)
BS - Female SW by Male Butt Weld
BT - Female Thd by Male Butt Weld
BW - Butt Weld
CS - Female SW by Male Couplet
CT - Female Thd by Male Couplet
R - In-Line Repair (female NPT)
RJ - Ring Joint Flanges
S - Swing Check (female NPT)
SS - Female SW by Male SW
ST - Female Thd by Male SW
SW - Socket Weld
SWB - Ball Check (SW)
SWR - In-line Repairable (SW)
SWS - Swing Check (SW)
TS - Female SW by Male Thd
TSW - Female Thd by Female SW
TT - Female Thd by Male Thd

Valve Design/Material:

This maximum 5 numeric character uniquely identifies the valve to its design (gate, globe, angle, check, etc.) and pressure boundary material of construction (A105, A182-F5, F11, F316, etc.). The prefix and suffix to this number provide details to the design, end connections and trim option including packing.

Suffix Description:

(Blank) – Standard Trim
B – Bellows Valve
C – Cryogenic Valve
CL – Chlorine Valve Trim – Monel/Hastelloy
ER – Emissions Reduction – Double Packed with Lantern Ring
F8M– 316 Trim
FHF – Full Hard Face (unless standard)
FH8 – Full Hard Faced F8M Trim
FHT – Teflon Packing and Full Hard Face
HF – Hard Faced Disc (F316 Globes and Checks Only)
HF2 – UOP Alkylation
HF4 – UOP Alkylation
HF5 – UOP Alkylation
HF6 – UOP Alkylation
HF7 – UOP Alkylation
L – Locking Device
MB6 – 13% Chrome Trim – NACE
MB8 – 316 Trim Hard Faced Seats and Disc/Wedge – NACE
MBS – Monel Trim – NACE
MM – Monel Trim – Grafoil Packing and Gasket
MMP – Phillips Alkylation
MMT – Monel Trim – Teflon Packing and Gasket
MT – Chlorine Valve Trim – Monel/Teflon Disc/Hastelloy
MTG – Vogt Alkylation
MTP – Phillips Alkylation
R– Reactive Seal
T – Teflon Packing and Gasket
ZLB – Zero Leakage Check Valve – Buna N
ZLE – Zero Leakage Check Valve – Ethylene Propylene
ZLN – Zero Leakage Check Valve – Neoprene
ZLV – Zero Leakage Check Valve – Viton 14

Legend:

The prefixes and suffixes based on design are limited to **S**, **B, R** and **ER** (as listed above) **ONLY**.

Expansion of new valve designs are added as new SERIES NUMBERS.

(See the VV 200 individual pages for standard series available.)

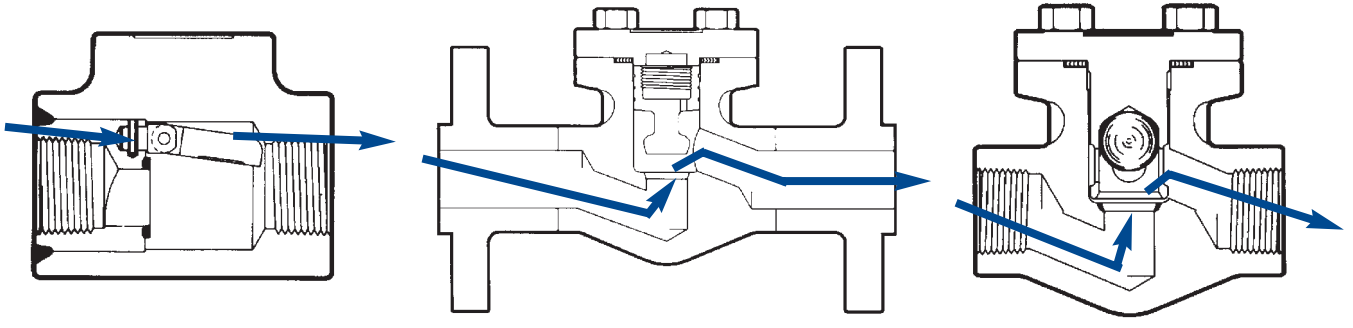
Check Valve Section – Pages 89-111

Vogt check valves are forged from fine grain steel and are available with threaded, socket weld or flanged ends. Most bonnet designs, including bolted, seal weld, union, and bonnetless type check valves are manufactured to meet a wide variety of service applications.

Piston, ball, swing and spring controlled check valve designs for horizontal or vertical (upward) flow applications for the most often specified pressure classes are available. A spring can be added to piston check valves not currently equipped with that option if specified on the order.

Vogt's "Y" pattern check valves complement our "Y" pattern and In-Line repairable globe valve lines used in refineries, chemicals, power and related industries.

Piston and ball check valves should not be used in applications where rusting or rust particles are present or anticipated. Swing check valves are more tolerant for applications of this nature.



NO BONNET
SWING CHECK VALVE

BOLTED BONNET
PISTON CHECK VALVE

BOLTED BONNET
BALL CHECK VALVE

Vogt check valves (non spring loaded) should be sized to provide a minimum of 2 psi pressure drop for ball and piston type valves and 1/2 psi for swing check type valves. This will assure that the valves will not be subject to noisy operation and premature wear of parts.

Spring loaded piston check valves are the Vogt preference for reciprocating compressor service in which a history of noisy check valve operation has been experienced.

Check valves are designed to prevent reverse flow. Leakage rate for Vogt check valves with metal-to-metal seats are dependent on the amount of back pressure and the viscosity of the flowing medium. Check valves should not be used in gas or low back pressure liquid applications if zero leakage is desired. See Page 100 for Vogt zero leakage check valves.

Dimensions are in inches and millimeters.
Dimensions are subject to change without notice.
Order by Size and Series Number.

Forged Check Valves

Class 150 (PN 20)

Conventional Port

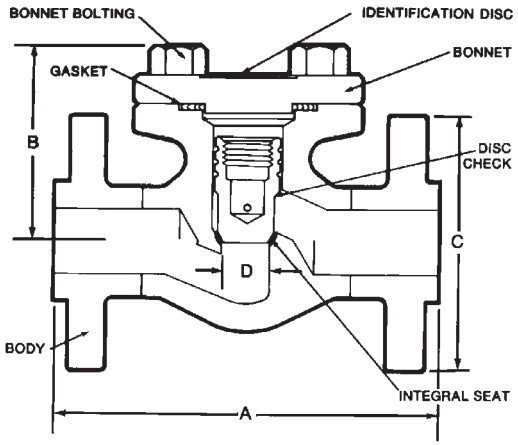
285 PSI @ 100°F (19.7 BAR @ 38°C)

For other ratings see pgs. 112-115

Body/Bonnet	Series Number	
A105	573	Trim: 13% Cr. Seat: HF
	573MB8	Trim: 316 SS Disc/Seat: HF
	573MBS	Trim: Monel Seat: HF
	573MM	Trim: Monel Seat: HF
	573F8M	Trim: 316 Seat: HF
A350 LF2	32573	Trim: 13% Cr. Seat: HF

MATERIALS MEET REQUIREMENTS OF NACE STANDARD MR-01-75 FOR SOUR SERVICE

Meets API-602 required wall thicknesses.



Flanged Ends 1/16" R.F.

- Round Bolted Bonnet
- Spiral Wound Gasket
- Horizontal Type
- Piston Check
- Integral Hard Faced Seat
- ASME B16.34

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/2	2
	DN	15	20	25	40	50
A-End-to-End		4.25	4.62	5.00	6.50	8.00
		108	117	127	165	203
B		2.56	2.56	3.12	4.50	4.94
		65	65	79	114	125
C		3.50	3.88	4.25	5.00	6.00
		89	99	108	127	152
D-Seat Diameter		.50	.50	.75	1.28	1.53
		12.7	12.5	19.1	32.5	38.9
Weight		5.3	6.5	10.1	20.7	33.1
		2.4	3.0	4.6	9.4	15.0

Valve flanges conform to ASME Standard B16.5 and end-to-end dimensions conform to ASME Standard B16.10.

For Cv factors see page 123, Valve Matrix FF.
Refer to pages 116-120 for full materials description.

Forged Check Valves

Class 300 (PN 50)

Conventional Port

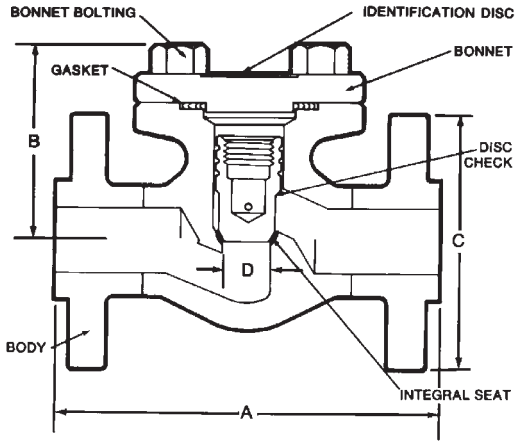
740 PSI @ 100°F (51.0 BAR @ 38°C)

For other ratings see pgs. 112-115

Body/Bonnet	*Series Number*	
A105	583	Trim: 13% Cr. Seat: HF
	583MB8	Trim: 316 SS Disc/Seat: HF
	583MBS	Trim: Monel Seat: HF
	583MM	Trim: Monel Seat: HF
	583F8M	Trim: 316 Seat: HF
A350 LF2	32583	Trim: 13% Cr. Seat: HF

MATERIALS MEET REQUIREMENTS OF NACE STANDARD MR-01-75 FOR SOUR SERVICE

Meets API-602 required wall thicknesses.



Flanged Ends 1/16" R.F.

- Round Bolted Bonnet
- Spiral Wound Gasket
- Horizontal Type
- Piston Check
- Integral Hard Faced Seat
- ASME B16.34

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/2	2
	DN	15	20	25	40	50
A-End-to-End		6.00	7.00	8.00	9.00	10.50
		152	178	203	229	267
B		2.56	2.56	3.12	4.50	4.94
		65	65	79	114	125
C		3.75	4.62	4.88	6.12	6.50
		95	117	124	155	165
D-Seat Diameter		.50	.50	.75	1.28	1.53
		12.7	12.7	19.1	32.5	38.9
Weight		6.6	10.0	13.7	27.9	38.0
		3.0	4.5	6.2	12.7	17.3

Valve flanges conform to ASME Standard B16.5 and end-to-end dimensions conform to ASME Standard B16.10.

For Cv factors see page 123, Valve Matrix FF.
Refer to pages 116-120 for full materials description.

Forged Check Valves

Class 600 (PN 110)

Conventional Port

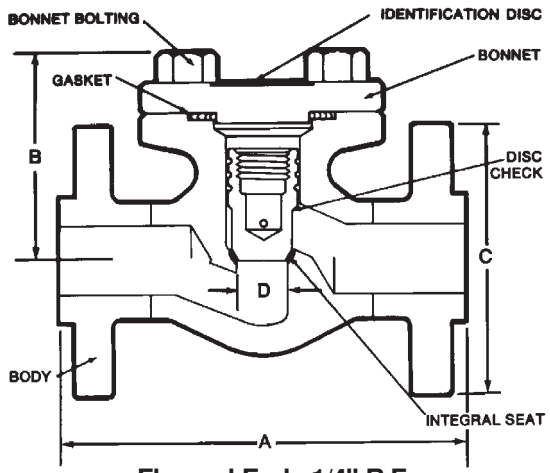
1480 PSI @ 100°F (102.1 BAR @ 38°C)

For other ratings see pgs. 112-115

Body/Bonnet	*Series Number*	
A105	593	Trim: 13% Cr. Seat: HF
	593MB8	Trim: 316 SS Disc/Seat: HF
	593MBS	Trim: Monel Seat: HF
	593MM	Trim: Monel Seat: HF
	593F8M	Trim: 316 Seat: HF
A350 LF2	32593	Trim: 13% Cr. Seat: HF

MATERIALS MEET REQUIREMENTS OF NACE STANDARD MR-01-75 FOR SOUR SERVICE

Meets API-602 required wall thicknesses.



Flanged Ends 1/4" R.F.

- Round Bolted Bonnet
- Spiral Wound Gasket
- Horizontal Type
- Piston Check
- Integral Hard Faced Seat
- ASME B16.34

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/2	2
	DN	15	20	25	40	50
A-End-to-End		6.50	7.50	8.50	9.50	11.50
		165	190	216	241	292
B		2.56	2.56	3.12	4.50	4.94
		65	65	79	114	125
C		3.75	4.62	4.88	6.12	6.50
		95	117	124	155	165
D-Seat Diameter		.50	.50	.75	1.28	1.53
		12.7	12.7	19.1	32.5	38.9
Weight		6.9	9.8	15.2	31.2	41.8
		3.1	4.4	6.9	14.2	19.0

Valve flanges conform to ASME Standard B16.5 and end-to-end dimensions conform to ASME Standard B16.10.

For Cv factors see page 123, Valve Matrix FF.
Refer to pages 116-120 for full materials description.

Forged Check Valves – For HF Alkylation Service

Class 800 (PN 130)

1975 PSI @ 100°F (136.2 BAR @ 38°C)

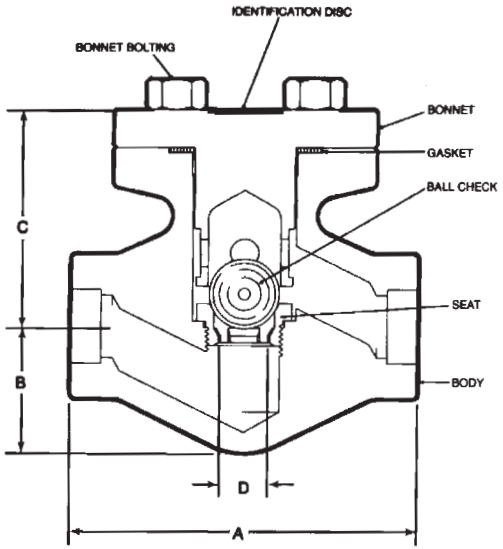
For other ratings see pgs. 112-115

A105 Body/Bonnet

SERIES NUMBER

Threaded	Socket Weld
–	**SWB43721HF2** Sizes 1/2-1" **Trim: Monel**
–	**SWB43721HF4** **Trim: Monel**
–	**SWB43721HF5** **Trim: Monel**

HYDROFLURIC ACID (HF) ALKYLATION VALVES. UOP APPROVED.



- Round Bolted Bonnet
- Spiral Wound Gasket
- Horizontal Type
- Ball Check
- Removable Seat
- ASME B16.34

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/2	2
	DN	15	20	25	40	50
A-End-to-End		4.00	4.62	6.25	7.75	9.00
		102	117	159	197	229
B		1.12	1.56	2.25	2.69	3.50
		28	40	57	68	89
C		2.56	3.06	4.50	4.88	5.94
		65	78	114	124	151
D-Seat Diameter		.39	.59	.97	1.44	1.88
		9.9	15.0	24.6	36.6	47.8
Weight		3.5	6.5	17.5	25.8	47.4
		1.6	3.0	8.0	11.7	21.5

Refer to pages 116-120 for full materials description.

For Cv factors see page 123, Valve Matrix HH.

Forged Check Valves

Class 800 (PN 130)

Conventional Port

1975 PSI @ 100°F (136.2 BAR @ 38°C)

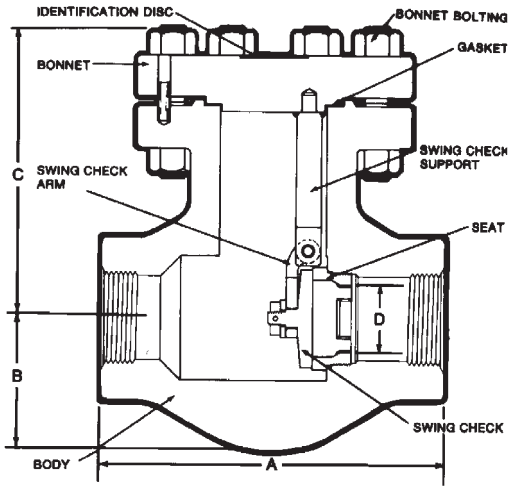
For other ratings see pgs. 112-115

A105 Body/Bonnet

SERIES NUMBER

Threaded	Socket Weld
4835	**SW4835**
	Trim: 13% Cr.

Meets API-600 required wall thicknesses.



- Round Bolted Bonnet
- Flat Gasket Joint
- Horizontal or Vertical Upward Flow
- Swing Check
- Renewable Seat
- ASME B16.34

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/4	1-1/2	2
	DN	15	20	25	32	40	50
A-End-to-End		4.00	4.00	5.00	6.50	6.50	7.25
		102	102	127	165	165	184
B		1.31	1.31	1.75	2.19	2.19	2.62
		33	33	44	56	56	66
C		4.62	4.62	5.50	6.38	6.38	6.94
		117	117	140	162	162	176
D-Seat Diameter		.39	.39	.69	.97	1.19	1.44
		9.9	9.9	17.5	24.6	30.2	36.6
Weight		13.2	13.0	22.1	29.1	30.2	39.9
		6.0	6.0	10.0	13.2	13.7	18.1

Refer to pages 116-120 for full materials description.
For Cv factors see page 123, Valve Matrix JJ.

Forged Check Valves

Class 800 (PN 130)

Conventional Port

1975 PSI @ 100°F (136.2 BAR @ 38°C)

For other ratings see pgs. 112-115

A105 Body/Bonnet

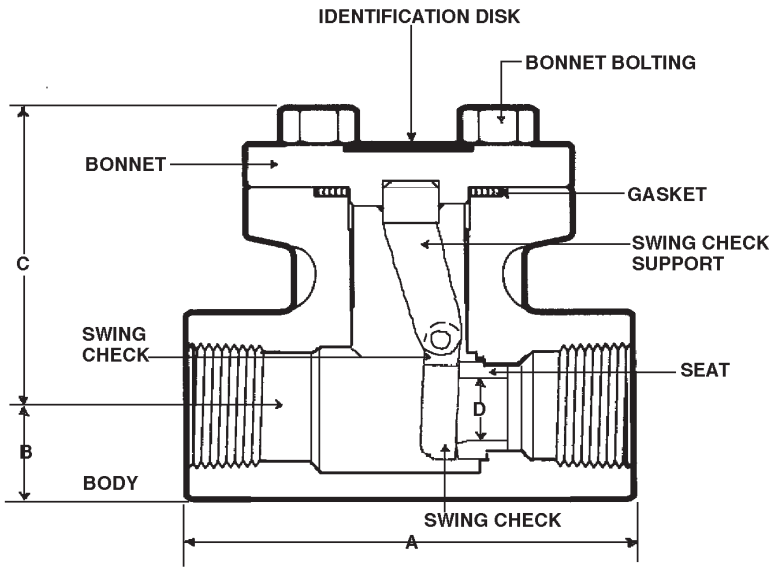
SERIES NUMBER

Threaded	Socket Weld
S701	**SWS701** **Trim: 13% Cr.** **Seat: HF**

F316, F316L Body/Bonnet

1920 PSI @ 100°F (132.4 BAR @ 38°C)

S718	**SWS718** **Trim: 316** **Seat: HF**



- Round Bolted Bonnet
- Spiral Wound Gasket
- Horizontal or Vertical Upward Flow
- Swing Check
- Hard Faced Seat
- ASME B16.34

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/2	2
	DN	15	20	25	40	50
A-End-to-End		3.38	3.38	4.19	5.44	5.94
		86	86	106	138	151
B		.78	.78	.97	1.28	1.56
		20	20	25	33	40
C		2.33	2.33	3.06	4.46	4.92
		59	59	78	113	125
D-Seat Diameter		.50	.50	.75	1.25	1.50
		12.7	12.7	19.1	31.8	38.1
Weight		3.9	3.8	6.1	16.5	25.3
		1.8	1.7	2.7	7.5	11.5

Refer to pages 116-120 for full materials description.

For Cv factors see page 123, Valve Matrix MM.

Forged Check Valves

Class 150 (PN 20)

Conventional Port

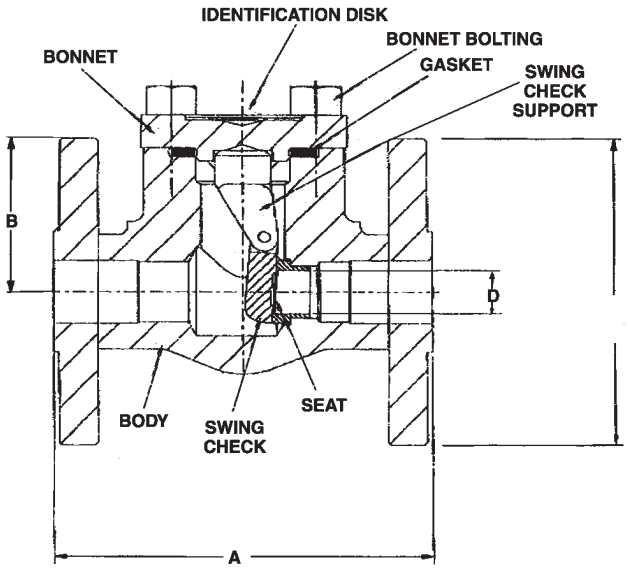
285 PSI @ 100°F (19.7 BAR @ 38°C)

For other ratings see pgs. 112-115

A105 Body/Bonnet

Series Number

S673 **Trim: 13% Cr.**
Seat: HF



Flanged Ends 1/16" R.F.

- Round Bolted Bonnet
- Spiral Wound Gasket
- Horizontal or Vertical Upward Flow
- Swing Check
- Hard Faced Seat
- ASME B16.34

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/2	2
	DN	15	20	25	40	50
A-End-to-End		4.25	4.62	5.00	6.50	8.00
		108	117	127	165	203
B		2.33	2.33	3.06	4.43	4.89
		59	59	78	112	124
C		3.50	3.88	4.25	5.00	6.00
		89	99	108	127	152
D-Seat Diameter		.50	.50	.75	1.25	1.50
		12.7	12.7	19.1	31.8	38.1
Weight		4.8	6.2	9.1	18.8	33.2
		2.2	2.8	4.1	8.5	15.1

Refer to pages 116-120 for full materials description.

For Cv factors see page 123, Valve Matrix MM.

Forged Check Valves

Class 300 (PN 50)

Conventional Port

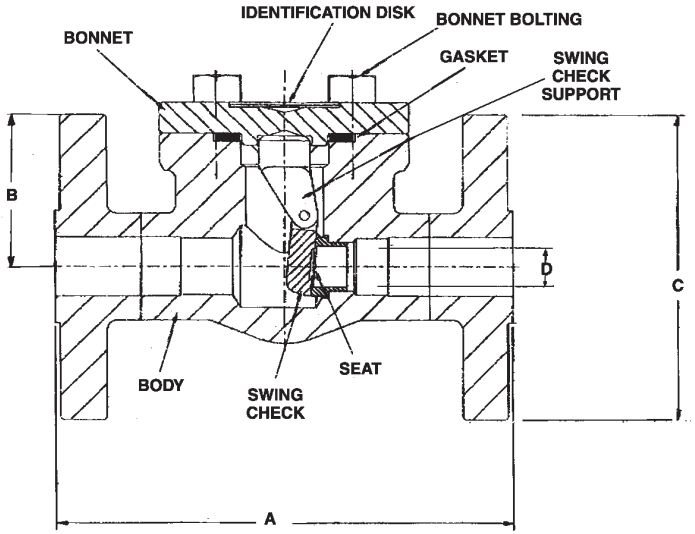
740 PSI @ 100°F (51.0 BAR @ 38°C)

For other ratings see pgs. 112-115

A105 Body/Bonnet

SERIES NUMBER

S683 **Trim: 13% Cr.**
Seat: HF



Flanged Ends 1/16" R.F.

- Round Bolted Bonnet
- Spiral Wound Gasket
- Horizontal or Vertical Upward Flow
- Swing Check
- Hard Faced Seat
- ASME B16.34

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/2	2
	DN	15	20	25	40	50
A-End-to-End		5.50	6.00	8.50	9.50	10.50
		140	152	216	241	267
B		2.33	2.33	3.06	4.43	4.89
		59	59	78	112	124
C		3.75	4.75	5.00	6.12	6.50
		95	121	127	155	165
D-Seat Diameter		.50	.50	.75	1.25	1.50
		12.7	12.7	19.1	31.8	38.1
Weight		6.3	9.3	13.9	2.60	39.4
		2.9	4.2	6.3	11.8	17.9

Refer to pages 116-120 for full materials description.

For Cv factors see page 123, Valve Matrix MM.

Forged Check Valves

Class 600 (PN 110)

Conventional Port

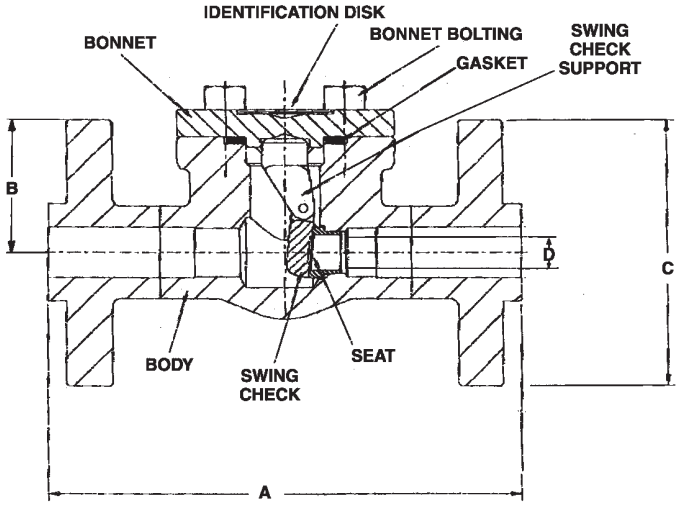
1480 PSI @ 100°F (102.1 BAR @ 38°C)

For other ratings see pgs. 112-115

A105 Body/Bonnet

Series Number

S693 **Trim: 13% Cr.**
Seat: HF



Flanged Ends 1/4" R.F.

- Round Bolted Bonnet
- Spiral Wound Gasket
- Horizontal or Vertical Upward Flow
- Swing Check
- Hard Faced Seat
- ASME B16.34

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/2	2
	DN	15	20	25	40	50
A-End-to-End		6.50	7.50	8.50	9.50	11.50
		165	190	216	241	292
B		2.33	2.33	3.06	4.43	4.89
		59	59	78	112	124
C		3.75	4.62	5.00	6.12	6.50
		95	117	127	155	165
D-Seat Diameter		.50	.50	.75	1.25	1.50
		12.7	12.7	19.1	31.8	38.1
Weight		6.9	10.2	14.4	27.8	43.2
		3.1	4.6	6.5	12.6	19.6

Refer to pages 116-120 for full materials description.

For Cv factors see page 123, Valve Matrix MM.

Forged Check Valves

Class 800 (PN 130)

Conventional Port

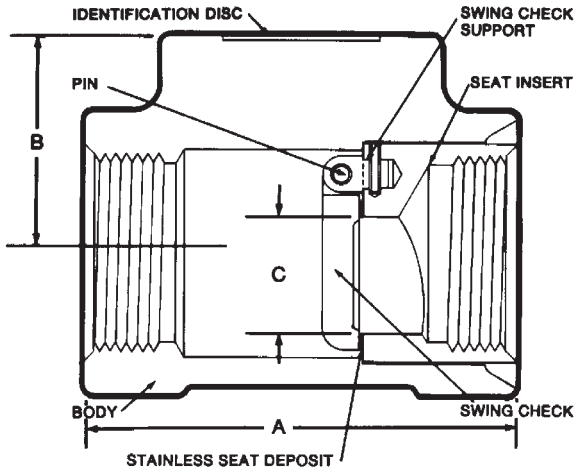
1975 PSI @ 100°F (136.2 BAR @ 38°C)

For other ratings see pgs. 112-115

A105 Body/Bonnet

SERIES NUMBER

Threaded	Socket Weld
S74	**SWS74**
	Trim: 13% Cr. with Type 309 Integral Seat



- No Bonnet
- Horizontal or Vertical Upward Flow
- Swing Type Check
- Welded Seat Insert with Integral Stainless Seat Deposit
- ASME B16.34

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/2	2
	DN	15	20	25	40	50
A-End-to-End		3.50	3.50	4.00	5.00	6.75
		89	89	102	127	171
B		1.75	1.75	2.00	2.50	3.38
		44	44	51	64	86
C-Seat Diameter		.50	.50	.75	1.25	1.50
		12.7	12.7	19.1	31.8	38.1
Weight		3.7	3.6	5.1	10.7	23.7
		1.5	1.6	2.3	4.9	10.8

Refer to pages 116-120 for full materials description.

For Cv factors see page 123, Valve Matrix MM.

Forged Check Valves

Class 800 (PN 130)

Conventional Port

1975 PSI @ 100°F (136.2 BAR @ 38°C)

For other ratings see pgs. 112-115

A105 Body/Bonnet

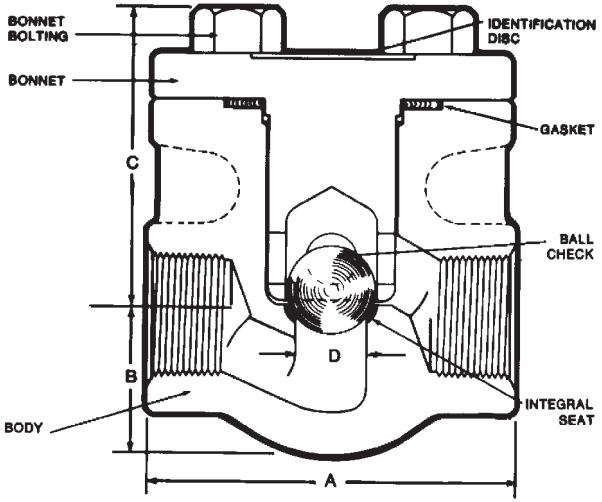
Series Number	
Threaded	Socket Weld
B701	**SWB701** **Trim: 18% Cr.** **Seat: HF**
–	**SWB701HF6 Sizes 1/2-2 (No 1-1/4)**
–	**SWB701HF7 Sizes 1/2-2 (No 1-1/4)** **Trim: 18% Cr.** **Seat: HF**

HYDROFLUORIC ACID (HF ALKYLATION VALVES. UOP APPROVED.

316/316L Body/Bonnet

1920 PSI @ 100°F (132.4 BAR @ 38°C)

B718	**SWB718** **Trim: 316**



- Round Bolted Bonnet
- Spiral Wound Gasket
- Horizontal Type
- Ball Check
- Integral Seat
- ASME B16.34

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/4	1-1/2	2
	DN	15	20	25	32	40	50
A-End-to-End		3.75	4.00	4.62	6.25	6.25	7.75
		95	102	117	159	159	197
B		1.00	1.12	1.56	2.25	2.25	2.69
		25	28	40	57	57	68
C		2.56	2.56	3.06	4.50	4.50	4.94
		65	65	78	114	114	125
D-Seat Diameter		.50	.50	.75	1.28	1.28	1.53
		12.7	12.7	19.1	32.5	32.5	38.9
Weight		3.4	3.5	6.2	17.6	17.0	26.1
		1.5	1.5	2.8	8.0	7.7	11.8

Refer to pages 116-120 for full materials description.
For Cv factors see page 123, Valve Matrix FF.

Forged Check Valves – Spring Control

Class 800 (PN 130)

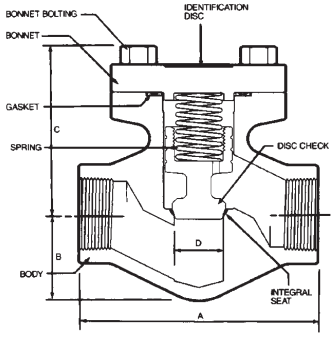
Conventional Port

1975 PSI @ 100°F
(136.2 BAR @ 38°C)

For other ratings see pgs. 112-115

A105 Body/Bonnet

Series Number	
Threaded	Socket Weld
710	**SW 710** **Trim: 13% Cr. (302 Spring)** **Seat: HF**
710FHF	**SW710FHF** **Trim: 13% Cr. (302 Spring)** **Disc/Seat: HF**



- Round Bolted Bonnet
- Spiral Wound Gasket
- Horizontal or Vertical Upward Flow
- Spring Control
- Piston Check or Ball Check
- Integral Hard Faced Seat
- ASME B16.34

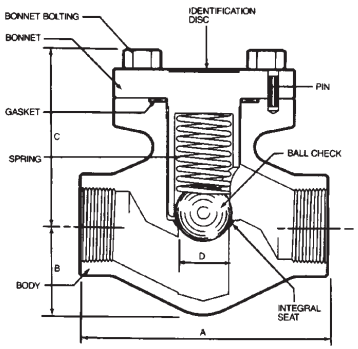
Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size / NPS / DN	1/4 8	3/8 10	1/2 15	3/4 20	1 25	1-1/4 32	1-1/2 40	2 50
A-End-to-End	**3.75** **95**	**3.75** **95**	**3.75** **95**	**4.00** **102**	**4.62** **117**	**6.25** **159**	**6.25** **159**	**7.75** **197**
B-Center-to-Bottom	**1.00** **25**	**1.00** **25**	**1.00** **25**	**1.12** **28**	**1.56** **40**	**2.25** **57**	**2.25** **57**	**2.69** **68**
C-Center-to-Top	**2.56** **65**	**2.56** **65**	**2.56** **65**	**2.56** **65**	**3.06** **78**	**4.50** **114**	**4.50** **114**	**4.94** **126**
D-Seat Diameter	**.50** **12.7**	**.50** **12.7**	**.50** **12.7**	**.50** **12.7**	**.75** **19.1**	**1.28** **32.5**	**1.28** **32.5**	**1.53** **38.9**
Weight	**3.4** **1.5**	**3.4** **1.5**	**3.2** **1.5**	**3.4** **1.5**	**6.1** **2.8**	**17.0** **7.7**	**16.5** **7.5**	**25.0** **11.4**

A105 Body/Bonnet

Series Number	
Threaded	Socket Weld
B 710	**SWB 710** **Trim: 18% Cr. (302 Spring)** **Seat: HF**



Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size / NPS / DN	1/2 15	3/4 20	1 25	1-1/2 40	2 50
A-End-to-End	**3.75** **95**	**4.00** **102**	**4.62** **117**	**6.25** **159**	**7.75** **197**
B-Center-to-Bottom	**1.00** **25**	**1.12** **28**	**1.56** **40**	**2.25** **57**	**2.69** **68**
C-Center-to-Top	**2.56** **65**	**2.56** **65**	**3.06** **78**	**4.50** **114**	**4.94** **126**
D-Seat Diameter	**.50** **12.7**	**.50** **12.7**	**.75** **19.1**	**1.28** **32.5**	**1.53** **38.9**
Weight	**3.2** **1.5**	**3.4** **1.5**	**6.1** **2.8**	**16.5** **7.5**	**25.0** **11.4**

Refer to pages 116-120 for full materials description.

Forged Check Valves

Class 800 (PN 130)

Conventional Port

For other ratings see pgs. 112-115

A350 LF2 Body/Bonnet
1975 PSI @ 100°F (136.2 BAR @ 38°C)

Threaded	Socket Weld
SERIES NUMBER	
32701	**SW32701** **Trim: 13% Cr.** **Seat: HF**
32701MB8	**SW32701MB8** **Trim: 316SS** **Disc/Seat: HF**

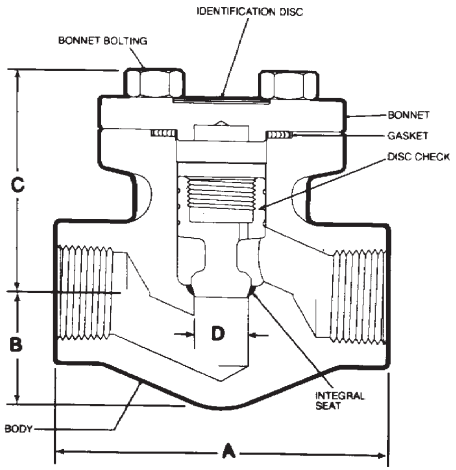
MATERIALS MEET REQUIREMENTS OF NACE STANDARD MR-01-75 FOR SOUR SERVICE

F316/F316L Body/Bonnet
1920 PSI @ 100°F (132.4 BAR @ 38°C)

Threaded	Socket Weld
718	**SW718** Sizes 1/2-2 (no 1 1/4)
718T+	**SW718T+** **Trim: 316**

F316H Body/Bonnet
1920 PSI @ 100°F (132.4 BAR @ 38°C)

Threaded	Socket Weld
82718	**SW82718** **Trim: 316H**



- Round Bolted Bonnet
- Spiral Wound Gasket
- Horizontal Type
- Piston Check
- Integral Hard Faced Seat
- ASME B16.34

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
	DN	8	10	15	20	25	32	40	50
A-End-to-End		3.75	3.75	3.75	4.00	4.62	6.25	6.25	7.75
		95	95	95	102	117	159	159	197
B		1.00	1.00	1.00	1.12	1.56	2.25	2.25	2.69
		25	25	25	28	40	57	57	68
C		2.56	2.56	2.56	2.56	3.06	4.50	4.50	4.94
		65	65	65	65	78	114	114	125
D-Seat Diameter		.50	.50	.50	.50	.75	1.28	1.28	1.53
		12.7	12.7	12.7	12.7	19.1	32.5	32.5	38.9
Weight		3.4	3.4	3.2	3.4	6.1	17.0	16.5	25.0
		1.5	1.5	1.5	1.5	2.8	7.7	7.5	11.4

See next page for assistance in selecting the type of "ZL" Ring to use.
+Valves contain TEFLON — maximum temperature 500°F.
Refer to pages 116-120 for full materials description.

For Cv factors see page 123, Valve Matrix FF.

Forged Check Valves

Class 800 (PN 130)

Conventional Port

For other ratings see pgs. 112-115

A105 Body/Bonnet

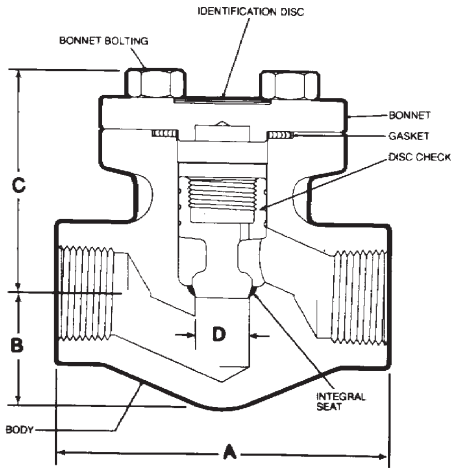
1975 PSI @ 100°F (136.2 BAR @ 38°C)

MATERIALS MEET REQUIREMENTS OF NACE STANDARD MR-01-75 FOR SOUR SERVICE

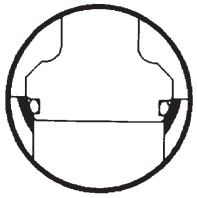
Series Number Threaded	Socket Weld
701	**SW701** **Trim: 13% Cr.** **Seat: HF**
701F8M	**SW701F8M** 1/2-2 (no 1 1/4) **Trim: 316** **Seat: HF**
701MM	**SW701MM** 1/2-2 (no 1 1/4) **Trim: Monel** **Seat: HF**
701MB8	**SW701MB8** **Trim: 316** **Disc/Seat: HF**
701MBS	**SW701MBS** **Trim: Monel** **Seat: HF**

ZERO LEAKAGE "ZL" (RING)

701ZLB **-20°F to 250°F**	**Buna N**	**Trim: 13% Cr** **Seat: HF**
701ZLE **-20°F to 300°F**	**Ethylene Propylene**	
701ZLN **-20°F to 240°F**	**Neoprene**	
701ZLV **-20°F to 400°F**	**Viton**	



- Round Bolted Bonnet
- Spiral Wound Gasket
- Horizontal Type
- Piston Check
- Integral Hard Faced Seat
- ASME B16.34



Soft Insert "ZL" Ring
Zero Leakage

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
	DN	8	10	15	20	25	32	40	50
A-End-to-End		3.75	3.75	3.75	4.00	4.62	6.25	6.25	7.75
		95	95	95	102	117	159	159	197
B		1.00	1.00	1.00	1.12	1.56	2.25	2.25	2.69
		25	25	25	28	40	57	57	68
C		2.56	2.56	2.56	2.56	3.06	4.50	4.50	4.94
		65	65	65	65	78	114	114	125
D-Seat Diameter		.50	.50	.50	.50	.75	1.28	1.28	1.53
		12.7	12.7	12.7	12.7	19.1	32.5	32.5	38.9
Weight		3.4	3.4	3.2	3.4	6.1	17.0	16.5	25.0
		1.5	1.5	1.5	1.5	2.8	7.7	7.5	11.4

See preceding page for assistance in selecting the type of "ZL" Ring to use.
Refer to pages 116-120 for full materials description.

For Cv factors see page 123, Valve Matrix FF.

Compound Selection Guide*

for Service Fluids Commonly Used in Vogt "ZL" Check Valves

FLUID	BUNA N	VITON	ETHYLENE PROPOLYENE (EPR)	NEOPRENE	FLUID	BUNA N	VITON	ETHYLENE PROPOLYENE (EPR)	NEOPRENE	FLUID	BUNA N	VITON	ETHYLENE PROPOLYENE (EPR)	NEOPRENE	FLUID	BUNA N	VITON	ETHYLENE PROPOLYENE (EPR)	NEOPRENE
Acetone			●		Fuel Oil	●	●			Methyl Alcohol	●		●	●	Pyrogallic Acid		●		
Acetylene	●	●	●		Furfural			●		Mineral Oil	●	●			Shellac (Bleached)	●			
Air	●	●	●	●	Gas, Manufactured	●				Mustard	●				Shellac (Orange)	●			
Alcohols	●	●			Gas, Natural	●	●		●	Naphtha		●			Soap Solutions (Stearates)	●	●	●	
Amines—Mixed			●	●	Gasoline, Leaded	●	●			Naphthalene		●			Sodium Carbonate	●	●	●	●
Ammonia (Anhydrous)			●	●	Gasoline, Refined	●	●			Natural Gas	●	●		●	Sodium Chromate	●	●		
Ammonia (Aqueous)	●	●			Gasoline, Sour	●	●			Nitrogen	●	●	●	●	Sodium Cyanide	●		●	●
Ammonium Phosphate	●		●	●	Gasoline, Unleaded			●	●	Oils, Animal	●	●			Sodium Hydroxide	●	●	●	●
Asphalt		●			Glucose	●	●	●	●	Oils, Fuel	●	●			Sodium Metaphosphate	●	●	●	
Barium Carbonate	●	●		●	Glue	●	●		●	Oils, Mineral	●	●			Sodium Nitrate			●	
Beet Sugar Liquors	●	●	●		Glycerin	●	●	●	●	Oils, Petroleum (Refined)	●	●			Sodium Perborate		●	●	
Benzene (Beneol)		●			Hydraulic Oil	●	●			Oils, Petroleum (Sour)	●	●			Sodium Silicate	●	●	●	●
Butane	●	●		●	Hydrocarbons	●	●			Oxygen (Cold)		●	●	●	Sodium Sulfate	●	●	●	●
Cane Sugar Liquors	●	●	●	●	Hydrogen Gas (Cold)	●	●	●	●	Palmitic Acid	●	●			Sodium Sulfide	●	●	●	●
Carbon Bisulfide		●			Hydrogen Sulfide (Dry)			●		Pentane	●	●			Sodium Sulfite	●	●	●	●
Castor Oil	●	●		●	Jet Fuel	●	●			Potassium Carbonate	●	●		●	Sodium Thiosulfate (Hypo)	●	●	●	●
Caustic Soda	●	●	●	●	Kerosene	●	●			Potassium Cyanide	●	●	●	●	Steam (212° F)			●	
Crude Oil	●	●			Linseed Oil	●	●			Potassium Hydroxide		●	●		Sulfur Dioxide (Dry)			●	
Diesel Oils	●	●			Lubricating Oil	●	●			Potassium Nitrate	●	●	●	●	Tar & Tar Oil		●		
Dowtherms		●			Magnesium Hydroxide	●	●	●	●	Potassium Permanganate	●	●			Toluene		●		
Ethyl Alcohol	●		●	●	Magnesium Hydrox. (Hot)	●	●	●	●	Potassium Phosphate	●	●		●	Vegetable Oils	●	●		
Ethyl Chloride (Dry)	●	●			Magnesium Sulfate	●	●	●	●	Potassium Sulfate	●	●	●	●	Xylene		●		
Ethylene Glycol	●	●	●	●	Maleic Acid		●			Potassium Sulfide	●	●		●	Zinc Hydrosulfite	●	●	●	●
Fish Oils	●				Mercury	●	●	●	●	Potassium Sulfite	●	●	●	●					
Freon 12, 13, 22				●	Methane	●	●			Propane	●	●							

See Valves on Page No. 100

● Indicates the ZL Ring material suggested for use in a given fluid or service application.

*Because of the influence of contaminants in corrosive chemical solutions, this table is intended only as a general guide and does not constitute a recommendation or guarantee.

Forged Check Valves

Class 800 (PN 130)

Full Port

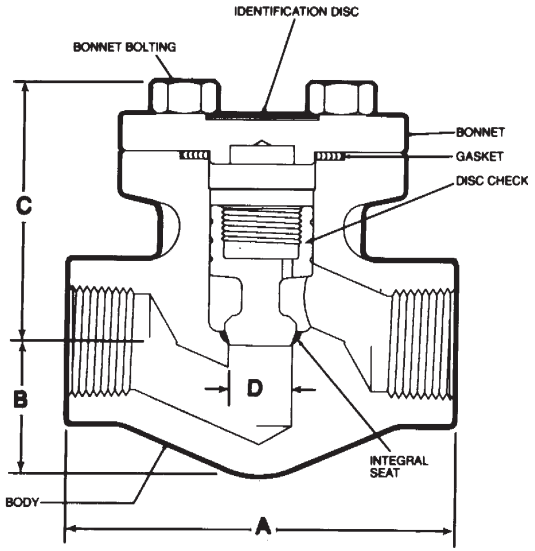
1975 PSI @ 100°F (136.2 BAR @ 38°C)

For other ratings see pgs. 112-115

A105 Body/Bonnet

SERIES NUMBER

Threaded	Socket Weld
13701	**SW13701**
	Trim: 13% Cr.
	Seat: HF



- Round Bolted Bonnet
- Spiral Wound Gasket
- Horizontal Type
- Piston Check
- Integral Hard Faced Seat
- ASME B16.34

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/4	1-1/2	2
	DN	15	20	25	32	40	50
A-End-to-End		4.00	4.62	6.25	6.25	7.75	9.00
		102	117	159	159	197	229
B		1.12	1.56	2.25	2.25	2.69	3.50
		28	40	57	57	68	89
C		2.56	3.06	4.50	4.50	4.94	5.94
		65	78	114	114	125	151
D-Seat Diameter		.50	.75	1.28	1.28	1.53	2.00
		12.7	19.1	32.5	32.5	38.9	50.8
Weight		3.5	6.5	17.5	16.6	25.8	47.4
		1.6	3.0	7.9	7.5	11.7	21.5

Refer to pages 116-120 for full materials description.

For Cv factors see page 123, Valve Matrix KK.

Forged Check Valves

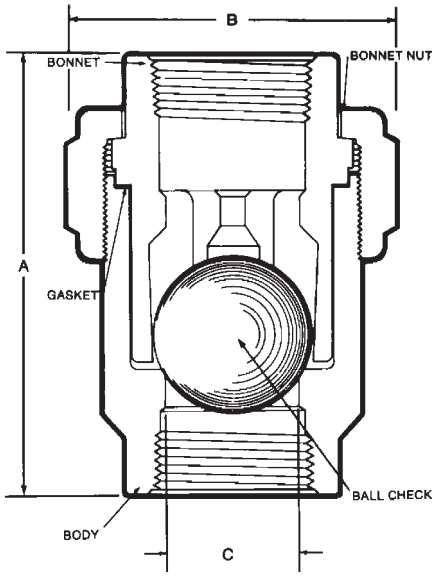
Class 800 (PN 130)

Full Port

1975 PSI @ 100°F (136.2 BAR @ 38°C)

For other ratings see pgs. 112-115

	Series Number	
Body/Bonnet	Threaded	Socket Weld
A105	**54853**	**SW54853** **Trim: 18% Cr.**
1920 PSI @ 100°F (132.4 BAR @ 38°C)		
F316/F316L	**54863**	**–** **Trim: 316**



- Union Bonnet
- Flat Gasket Joint
- Horizontal or Vertical Upward Flow
- Ball Check
- Integral Seat
- ASME B16.34

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/4	1-1/2	2
	DN	15	20	25	32	40	50
A-End-to-End		3.38	3.88	5.31	5.50	5.62	6.75
		86	99	135	140	143	171
B-Nut-Across-Corners		2.74	3.18	3.46	3.79	4.46	4.94
		70	81	88	96	113	125
C-Seat Diameter		.55	.81	1.06	1.28	1.53	2.00
		14.0	20.6	26.9	32.5	38.9	50.8
Weight		2.3	3.8	5.9	7.7	10.6	16.7
		1.0	1.7	2.7	3.5	4.8	7.6

Refer to pages 116-120 for full materials description.

For Cv factors see page 123, Valve Matrix LL.

Forged Check Valves

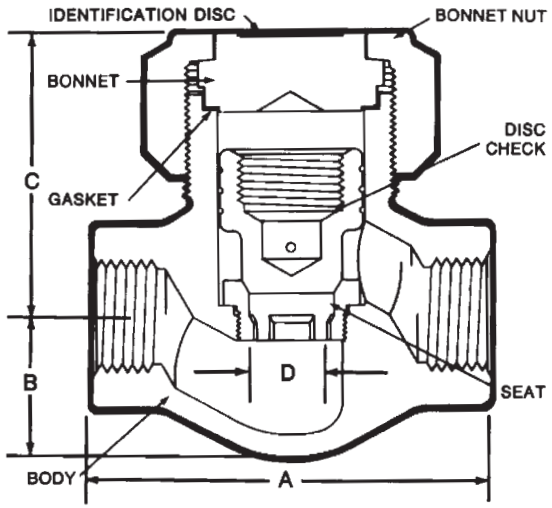
Class 800 (PN 130)

1975 PSI @ 100°F (136.2 BAR @ 38°C)

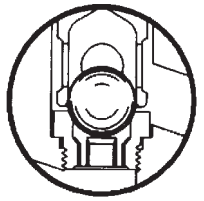
For other ratings see pgs. 112-115

A105 Body/Bonnet

Series Number	
Threaded	Socket Weld
9091	**SW9091**
	Trim: 13% Cr.
B9091	**SWB9091**
	Trim: 13% Cr. Seat
	18% Cr. Ball



- Union Bonnet
- Flat Gasket Joint
- Horizontal Type
- Piston Check/Ball Check
- Renewable Seat
- ASME B16.34



Ball Check

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
	DN	8	10	15	20	25	32	40	50
A-End-to-End		3.12	3.12	3.38	4.00	5.00	6.25	6.75	8.25
		79	79	86	102	127	159	171	210
B		.94	.94	1.12	1.50	1.75	2.38	2.69	3.12
		24	24	28	38	44	60	68	79
C		2.50	2.50	2.88	3.12	3.56	3.88	4.56	4.88
		64	64	73	79	90	99	116	124
D-Seat Diameter		.39	.39	.50	.72	.97	1.19	1.44	1.88
		9.9	9.9	12.7	18.3	24.6	30.2	36.6	47.8
Weight		2.7	2.8	4.2	6.4	9.2	14.5	23.0	35.4
		1.2	1.3	1.9	2.9	4.2	6.6	10.4	16.1

Refer to pages 116-120 for full materials description.
For Cv factors see page 123, Valve Matrix GG.

Forged Check Valves

Class 1500 (PN 260)

Conventional Port

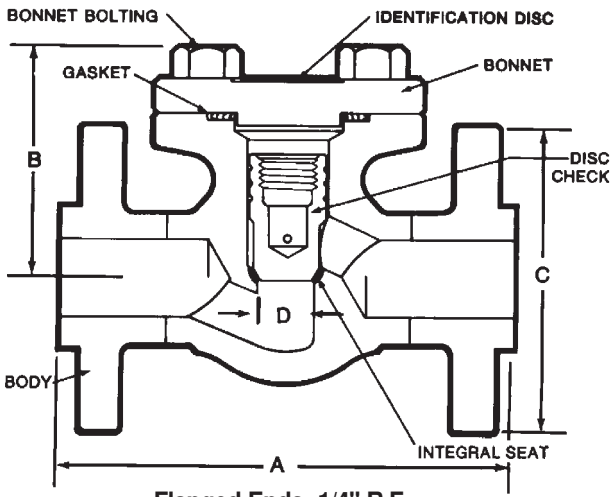
3705 PSI @ 100°F (255.5 BAR @ 38°C)

For other ratings see pgs. 112-115

A105 Body/Bonnet

SERIES NUMBER

15593	**Trim: 13% Cr. Seat: HF**
15593FHF	**Trim: 13% Cr. Disc/Seat: HF**



Flanged Ends: 1/4" R.F.

- Round Bolted Bonnet
- Spiral Wound Gasket
- Horizontal Type
- Piston Check
- Integral Hard Faced Seat
- ASME B16.34

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/2	2
	DN	15	20	25	40	50
A-End-to-End		8.50	9.00	10.00	12.00	14.50
		216	229	254	305	368
B		3.06	3.06	4.41	5.03	6.12
		78	78	112	128	155
C		4.75	5.12	5.88	7.00	8.50
		114	130	149	178	216
D-Seat Diameter		.50	.50	.75	1.12	1.38
		12.7	12.7	19.1	28.4	35.1
Weight		17.0	21.0	36.0	37.5	81.4
		7.7	9.5	16.3	17.0	37.0

Valve flanges conform to ASME Standard B16.5 and end-to-end dimensions conform to ASME Standard B16.10.
Refer to pages 116-120 for full materials description.

For Cv factors see page 123, Valve Matrix NN.

Forged Check Valves

Class 1500 (PN 260)

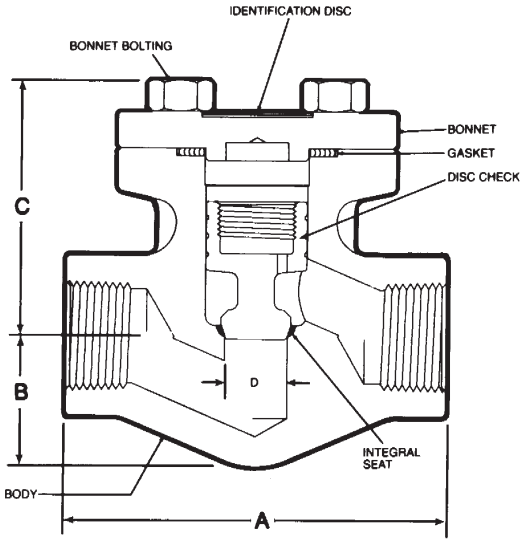
Conventional Port

3705 PSI @ 100°F (255.5 BAR @ 38°C)

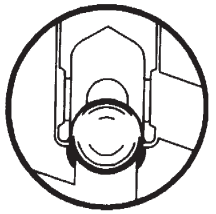
For other ratings see pgs. 112-115

A105 Body/Bonnet

Series Number	
Threaded	Socket Weld
15701	**SW15701** **Trim: 13% Cr.** **Seat: HF**
15701FHF	**SW15701FHF** **Trim: 13% Cr.** **Disc/Seat: HF**
B15701	**SWB15701** **Trim: 18% Cr. Ball** **Seat: HF**



- Round Bolted Bonnet
- Spiral Wound Gasket
- Horizontal Type
- Piston Check/Ball Check
- Integral Hard Faced Seat
- ASME B16.34



Ball Check

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/4	1-1/2	2
	DN	15	20	25	32	40	50
A-End-to-End		4.50	4.50	6.25	7.75	7.75	9.00
		114	114	159	197	197	229
B		1.56	1.56	2.25	2.69	2.69	3.50
		40	40	57	68	68	89
C		3.06	3.06	4.41	5.03	5.03	6.12
		78	78	112	128	128	155
D-Seat Diameter		.50	.50	.75	1.12	1.12	1.38
		12.7	12.7	19.1	28.4	28.4	35.1
Weight		7.1	6.9	18.5	29.9	29.5	54.4
		3.2	3.1	8.4	13.6	13.4	24.7

Refer to pages 116-120 for full materials description.
For Cv factors see page 123, Valve Matrix NN.

Forged Check Valves – For Oil Hydraulic Service

Class 1690 (PN 290)

Conventional Port

4225 PSI @ 100°F (291.4 BAR @ 38°C)

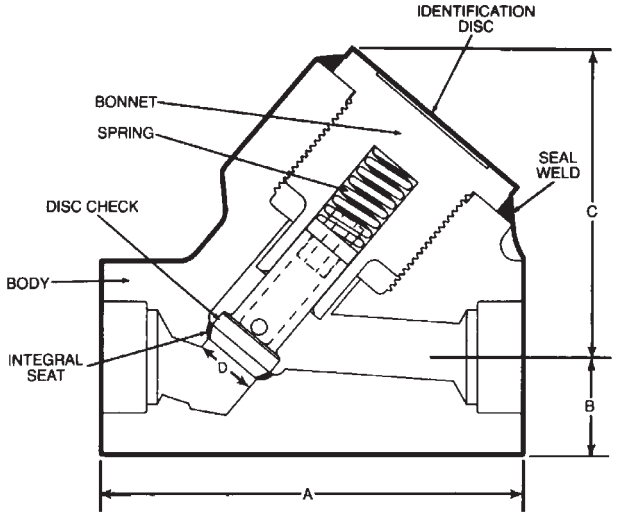
For other ratings see pgs. 112-115

A105 Body/Bonnet

Series Number	
Threaded	Socket Weld
1610	**SW1610**
	Trim: 13% Cr. (302 SS Spring)
	Disc/Seat: HF

F22 Cl 3 (2 1/4% Cr.) Body/Bonnet

Series Number	
Threaded	Socket Weld
1622	**SW1622**
	Trim: 13% Cr. (302 SS Spring)
	Disc/Seat: HF



- Welded Bonnet
- "Y" Pattern
- Horizontal or Vertical Upward Flow
- Spring Control
- Hard Faced Piston Check
- Integral Hard Faced Seat
- ASME B16.34 LTD Pressure Class

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/2	2
	DN	15	20	25	40	50
A-End-to-End		4.00	4.00	5.12	7.50	7.50
		102	102	130	190	190
B		.81	.81	1.16	1.69	1.69
		21	21	30	43	43
C		2.75	2.75	3.72	5.03	5.03
		70	70	94	128	128
D-Seat Diameter		.50	.50	.75	1.53	1.53
		12.7	12.7	19.1	38.9	38.9
Weight		4.1	4.0	9.1	23.2	23.0
		1.9	1.8	4.1	10.4	10.4

Refer to pages 116-120 for full materials description.

Forged Check Valves – For Air, Water & Oil Service

Class 2680 (PN 460)

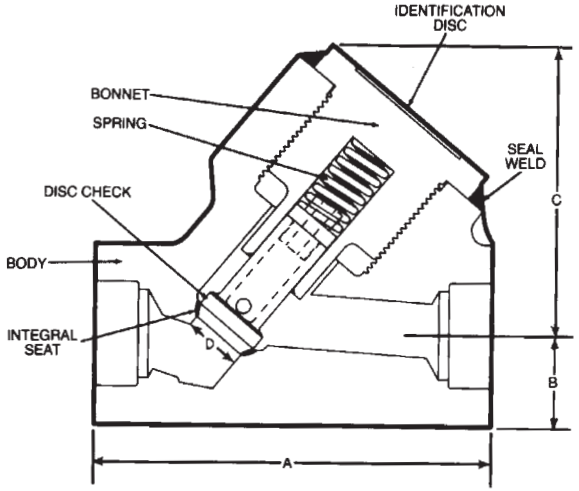
Full Port

SW: 6700 PSI @ 100°F (462.1 BAR @ 38°C)
THD: 6250 PSI @ 100°F (431.0 BAR @ 38°C)*

For other ratings see pgs. 112-115

	Series Number	
Body/Bonnet	Threaded*	Socket Weld
A105	**2610**	**SW2610** **Trim: 13% Cr. (302 SS Spring)** **Disc/Seats: HF**
F11, Cl. 2 (1-1/4% Cr.)	**2611**	**SW2611** **Trim: 13% Cr. (302 SS Spring)** **Disc/Seats: HF**
F22, Cl. 3 (2-1/4% Cr.)	**2622**	**SW2622** **Trim: 13% Cr. (302 SS Spring)** **Disc/Seats: HF**

*Threaded valves limited to Class 2500 Applications under ASME B16.34. See 2500 LTD Class Press/Temp tables, pages 112-115.



- Welded Bonnet
- "Y" Pattern
- Horizontal or Vertical Upward Flow
- Spring Control
- Hard Faced Piston Check
- Integral Hard Faced Seat
- ASME B16.34 LTD Pressure Class

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/2	2
	DN	15	20	25	40	50
A-End-to-End		4.00	5.12	5.12	8.25	8.25
		102	130	130	210	210
B		.81	1.16	1.16	1.94	1.94
		21	29	29	49	49
C		2.75	3.75	3.75	5.38	5.38
		70	95	95	137	137
D-Seat Diameter		.50	.75	.75	1.53	1.53
		12.7	19.1	19.1	38.9	38.9
Weight		4.0	9.1	9.1	36.0	33.2
		1.8	4.1	4.1	16.3	15.1

Refer to pages 116-120 for full materials description.

Forged Check Valves – For Oil Hydraulic Service

Type 3000

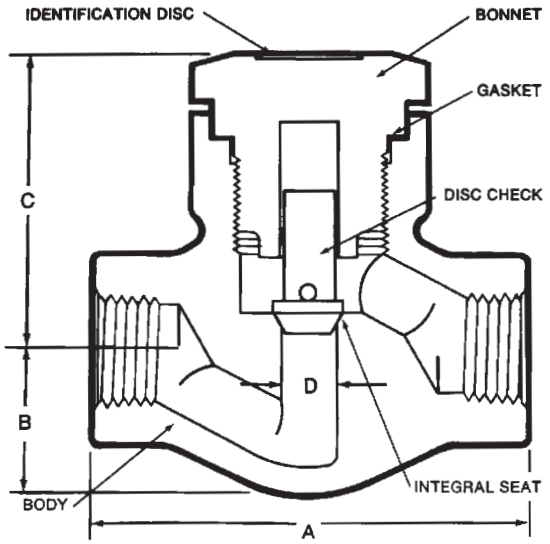
3000 PSI @ 100°F (206.9 BAR @ 38°C)
NON-SHOCK PRESSURE

Temperature not to exceed 450°F.

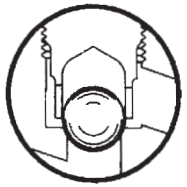
Not recommended for steam or dry gas service.

A105 Body/Bonnet

Series Number	
Threaded	Socket Weld
1551	**SW1551**
	Trim: 13% Cr.
B1551	**SWB1551**
(1/4 - 3/4 Only)	**Trim: 18% Cr. Ball**



- Screw Bonnet
- Flat Gasket Joint
- Horizontal Type
- Piston Check
- Integral Seat



Ball Check

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
	DN	8	10	15	20	25	32	40	50
A-End-to-End		3.12	3.12	3.38	4.00	5.00	6.25	6.75	8.25
		79	79	86	102	127	159	170	210
B		.94	.94	1.12	1.50	1.75	2.38	2.69	3.12
		24	24	28	38	44	60	68	79
C		2.69	2.69	2.81	3.50	3.81	3.88	4.25	4.75
		68	68	71	89	97	99	108	121
D-Seat Diameter		.50	.50	.50	.56	.81	1.06	1.28	1.53
		12.7	12.7	12.7	14.2	20.6	27.0	32.5	38.9
Weight		2.4	2.4	3.7	6.0	8.7	13.7	21.7	34.5
		1.1	1.1	1.7	2.7	3.9	6.2	9.8	15.7

Refer to pages 116-120 for full materials description.

For Cv factors see page 123, Valve Matrix SS.

Forged Check Valves – For Air, Water & Oil Service

Type 3000

3000 PSI @ 100°F (206.9 BAR @ 38°C)

NON-SHOCK PRESSURE

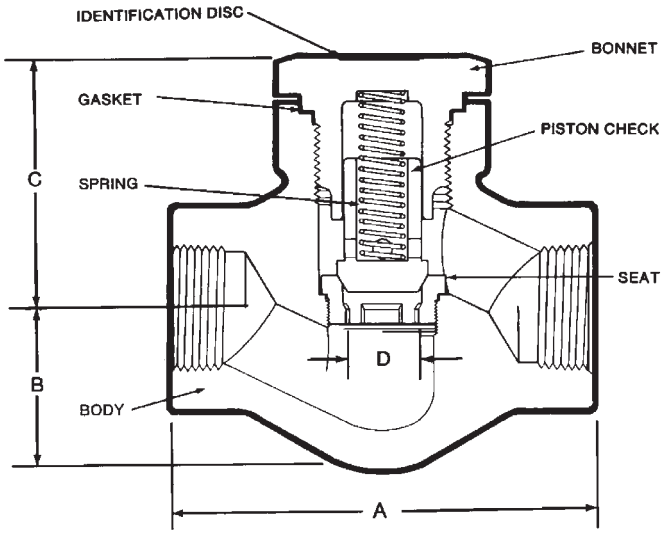
Temperature not to exceed 450°F.

Not recommended for steam service.

A105 Body/Bonnet

Series Number

Threaded	Socket Weld
2191	**SW2191**
	Trim: 13% Cr.



- Screw Bonnet
- Flat Gasket Joint
- Horizontal or Vertical Upward Flow
- Spring Control
- Piston Check
- Renewable Seat

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
	DN	8	10	15	20	25	32	40	50
A-End-to-End		3.12	3.12	3.38	4.00	5.00	6.25	6.75	8.25
		79	79	86	102	127	159	170	210
B		.94	.94	1.12	1.50	1.75	2.38	2.69	3.12
		24	24	28	38	44	60	68	79
C		2.75	2.75	3.00	3.50	3.81	3.81	4.25	4.94
		70	70	76	89	97	97	108	125
D-Seat Diameter		.39	.39	.39	.50	.72	.97	1.19	1.44
		9.9	9.9	9.9	12.7	18.3	24.6	30.2	36.6
Weight		2.5	2.4	3.5	5.8	8.7	13.5	20.8	34.5
		1.1	1.1	1.6	2.6	3.9	6.1	9.4	15.7

Refer to pages 116-120 for full materials description.

Forged Check Valves – For Air, Water & Oil Service

Type 6000

NON-SHOCK PRESSURE

6000 PSI @ 100°F (413.8 BAR @ 38°C)

Full Port

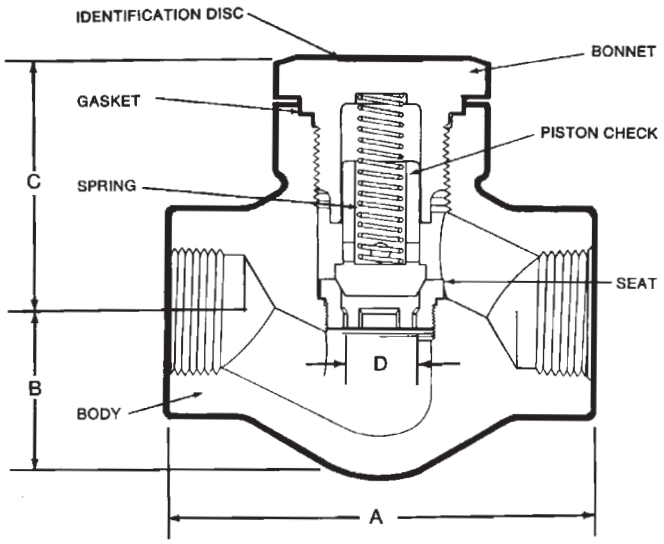
Temperature not to exceed 450°F.

Not recommended for steam service.

A105 Body/Bonnet

SERIES NUMBER

Threaded	Socket Weld
4881	**SW4881**
	Trim: 13% Cr.



- Screw Bonnet
- Flat Gasket Joint
- Horizontal or Vertical Upward Flow
- Spring Control
- Piston Check
- Renewable Seat

Dimensions

Bold face numerals are in inches and pounds.
Blue numerals are in millimeters and kilograms.

Size	NPS	1/2	3/4	1	1-1/4	1-1/2	2
	DN	15	20	25	32	40	50
A-End-to-End		4.00	5.00	6.25	6.75	8.25	8.50
		102	127	159	170	210	216
B		1.50	1.75	2.38	2.69	3.12	3.38
		38	44	60	68	79	86
C		3.12	3.62	3.88	4.44	4.75	5.88
		79	92	99	113	121	149
D-Seat Diameter		.39	.50	.72	.97	1.19	1.44
		9.9	12.7	18.3	24.6	30.2	36.6
Weight		5.7	7.2	14.5	23.4	36.9	51.9
		2.6	3.3	6.6	10.6	16.8	23.6

Refer to pages 116-120 for full materials description.