Technical documentation

NPS 1“ - NPS 6“

Englisch

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ANSI-Safety Relief Valve acc. to API526
Full Nozzle (ANSI 150 - 2500)

ARI-REYCO® R Series
ANSI-Safety Relief Valve

- ASME Code Section VIII-Division 1.
- UV-stamp NB-stamp
- API 526

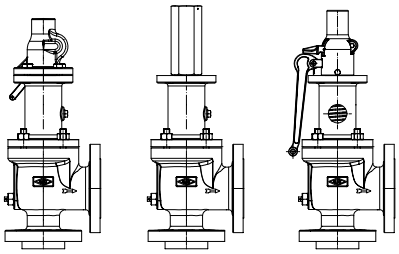


Fig. 971 973 974

Page 2

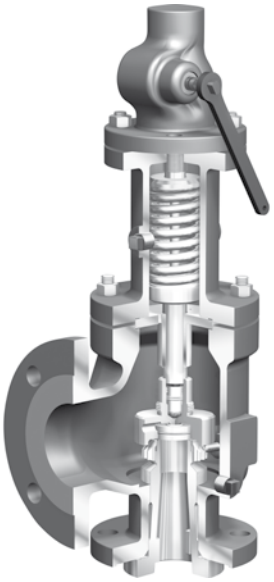


Fig. 971

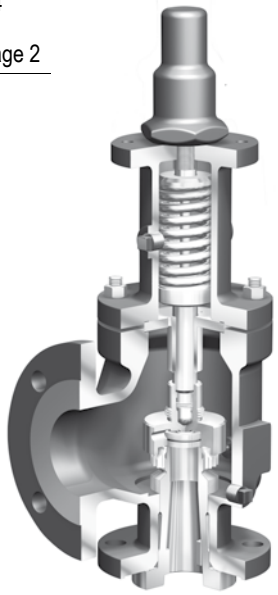


Fig. 973

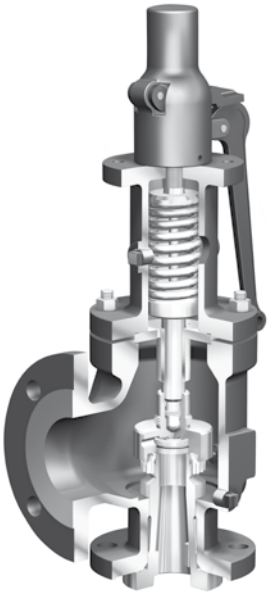


Fig. 974

Features:

- Direct loaded with spring
- Wear resistant seat/disc
- Precision disc alignment and guide
- Possible with soft seal disc
- Possible with stainless steel bellow

ARI-REYCO® R Series - Safety Relief Valve (Full Nozzle) acc. to API 526

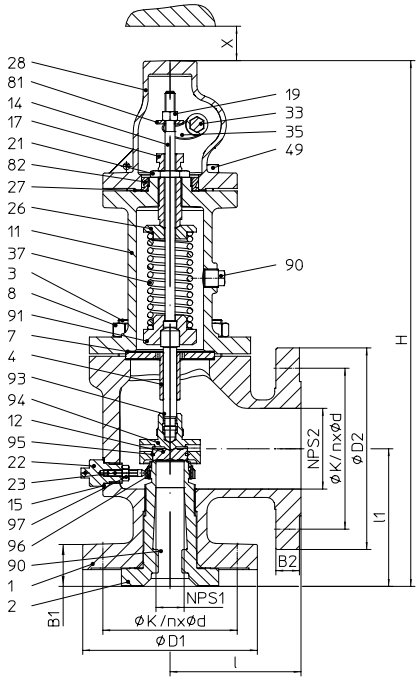


Fig. ... .971
closed lifting device

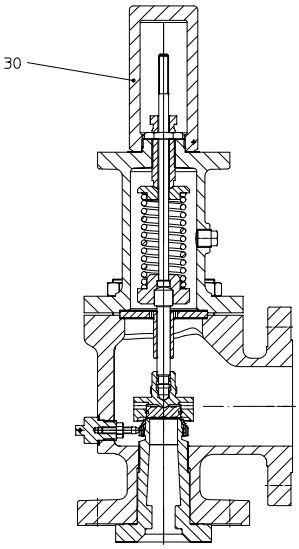


Fig. ... .973
gastight cap

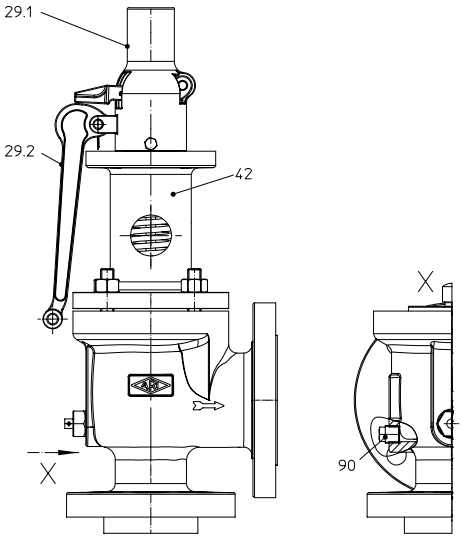


Fig. ... .974
open lifting device

Figure	Nominal pressure	Material	Valve size	Spring	Temperature range	Flanges
32.971 / 973 / 974	ANSI150/150	SA216WCC	1" x 2" - 8" x 10"			
35.971 / 973 / 974	ANSI300/150	SA216WCC	1" x 2" - 8" x 10"			
37.971 / 973 / 974	ANSI600/150	SA216WCC	1" x 2" - 6" x 10"	• Chrome vanadium	-20°F to +650°F	
38.971 / 973 / 974	ANSI900/(150)300	SA216WCC	1,5" x 2" - 4" x 6"	• SA313Gr.316	-20°F to +800°F	ASME B16.5
39.971 / 973 / 974	ANSI1500/(150)300	SA216WCC	1,5" x 2" - 4" x 6"	• Inconel	-20°F to +800°F	
3c.971 / 973 / 974	ANSI2500/300	SA216WCC	1,5" x 3" - 2" x 3"			
35.971 / 973 / 974	ANSI300/150	SA217WC6	1" x 2" - 8" x 10"			
37.971 / 973 / 974	ANSI600/150	SA217WC6	1" x 2" - 6" x 10"			
38.971 / 973 / 974	ANSI900/(150)300	SA217WC6	1,5" x 2" - 4" x 6"	• Inconel	-20°F to +1000°F	ASME B16.5
39.971 / 973 / 974	ANSI1500/(150)300	SA217WC6	1,5" x 2" - 4" x 6"			
3c.971 / 973 / 974	ANSI2500/300	SA217WC6	1,5" x 3" - 2" x 3"			
52.971 / 973	ANSI150/150	SA351CF8M	1" x 2" - 8" x 10"			
55.971 / 973	ANSI300/150	SA351CF8M	1" x 2" - 8" x 10"			
57.971 / 973	ANSI600/150	SA351CF8M	1" x 2" - 6" x 10"	• SA313Gr.316	-321°F to +800°F	
58.971 / 973	ANSI900/(150)300	SA351CF8M	1,5" x 2" - 4" x 6"	• Inconel	-75°F to +1000°F	ASME B16.5
59.971 / 973	ANSI1500/300	SA351CF8M	1,5" x 2" - 3" x 6"			
5c.971 / 973	ANSI2500/300	SA351CF8M	1,5" x 3" - 2" x 3"			

Marking

UV-stamp NB-stamp

Construction / Application

Safety valve, spring loaded, direct loaded, neutral gases, vapours and liquids

Requirement

ASME Code Section VIII-Division 1.

Sizing

Calculation acc. to ASME /API 520

Details required

Medium gasform:	Mass flow (lb/h), SCFM, molar mass (kg/kmol), isotrope exponent, temperature (°F), set gauge pressure (psig), back pressure (psig)
	Mass flow (kg/h), molar mass (kg/kmol), isotrope exponent, temperature (°C), set gauge pressure (bar), back pressure (bar)
Medium liquid:	Volume flow (gal/min), density, viscosity, temperature (°F), set gauge pressure (psi gauge), back pressure (psig)
	Volume flow (kg/h), density (kg/m^3), viscosity, temperature (°C), set gauge pressure (bar), back pressure (bar)

Order data:

ARI-REYCO® R Series - Safety Relief Valve, Figure ..., Orifice, Valve size ...x..., Class ..., Material ..., Set gauge pressure ...psig

Parts					
Pos.	**Sp.p.**	**Description**	**Fig. 32.971/973/974 - 3c.971/973/974**		**Fig. 52.971/973 - 5c.971/973**
1		Body	SA216WCC	SA217WC6	SA351CF8M
2	x	Nozzle	SA479Gr.316L (>2": SA351CF8M)		
3		Stud	SA193-B7		SA193-B8
4		Guide	SA351CF8M		
7	x	Gasket (body/bonnet)	Soft iron		Stainless steel
8		Stud nut	SA194-2H		SA194-8
11		Bonnet, closed	SA216WCC	SA217WC6	SA351CF8M
12	x	Disc	SA479Gr.316L		
14		Stem, top	SA479Gr.316L		
15	x	Gasket	Soft iron		Stainless steel
17		Compression screw	SA479Gr.316L		
19		Spindle cap	SA58Gr.303 SS		
21		Compression nut	SA479Gr.316L		
22		Locking screw (ring pin assembly)	SA479Gr.316L		
26		Top spring step	AISI1015		SA479Gr.316L
27	x	Gasket (cap)	Soft iron		Stainless steel
28		Cap, closed (Fig. 971)	SA216WCC		SA351CF8M
29.1		Cap, open (Fig. 974)	Gray iron		
29.2		Lever, open (Fig. 974)	Gray iron		
30		Cap, gastight (Fig. 973)	SA216WCC		SA351CF8M
35		Lift fork	SA216WCC		SA351CF8M
36		Lifting lever	Gray iron		
37		Spring	SA231/401, Chrome vanadium (up to 650°F)		SA313Gr.316 (up to 800°F)
			SA313Gr.316 (up to 800°F)	--	--
			Inconel X750 (up to 800°F)	Inconel X750 (up to 1000°F)	Inconel X750 (up to 1000°F)
42		Bonnet, open	SA216WCC	SA217WC6	SA351CF8M
49		Bolt	SA193-B7		
71	x	Gasket (gag screw)	Soft iron		Stainless steel
72		Gag screw	SA479Gr.316L		
74		Retaining plate	SA479Gr.316L		
75	x	O-ring	Viton		
77		Retaining screw	SA479Gr.304L		
90		Pipe plug	SA193-B7		SA193-B8
91		Bottom spring step	AISI1015		SA479Gr.316L
93		Point	SA479Gr.316L		
94		Disc holder	SA479Gr.316L (> Orifice K: SA351CF8M)		
95		Snap ring	SA313Gr.302		
96		Adjusting screw	SA351CF8M		
	└ Spare parts				

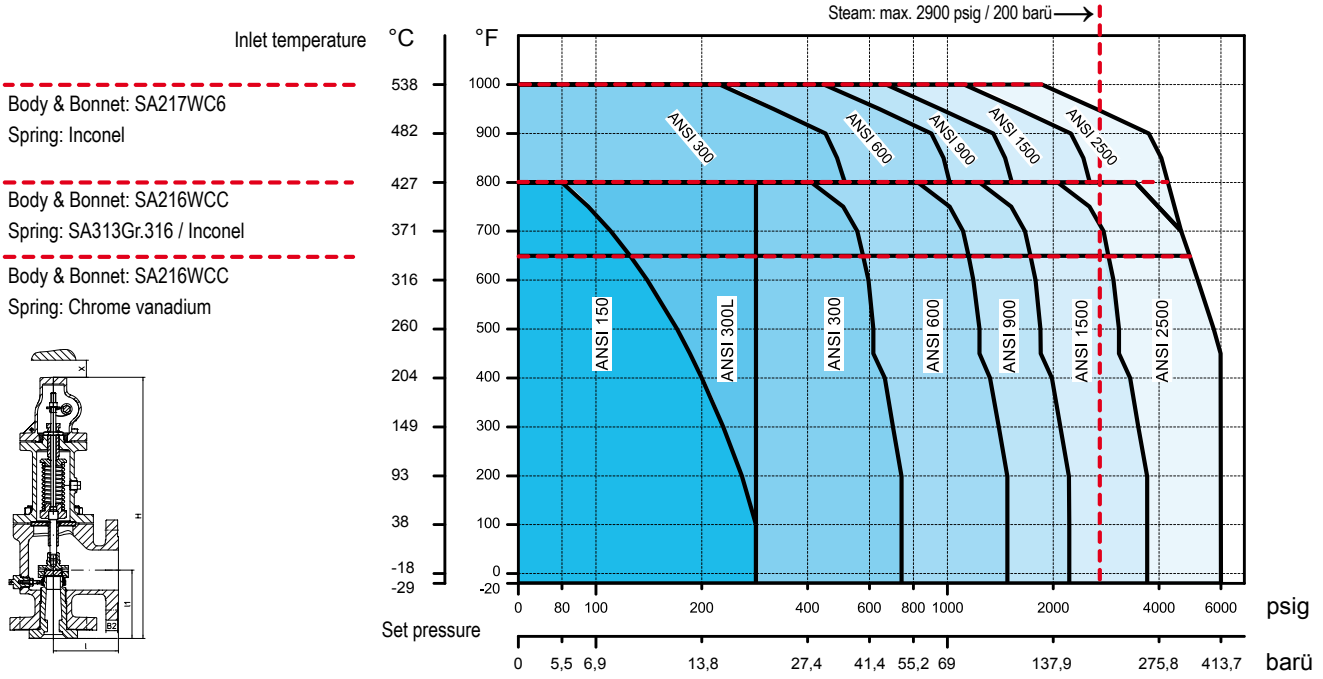
Certified coefficient of discharge K	**UV-/NB-stamp**									
Valve size	**1"x2"**	**1 1/2"x2" 1 1/2"x2 1/2"**	**1 1/2"x3"**	**2"x3"**	**3"x4"**	**3"x6"**	**4"x6"**	**6"x8"**	**6"x10"**	**8"x10"**
Steam / Gas	0,860									
Liquid	0,724									

Information / restriction of technical rules need to be observed!

A production allowance acc. to TRB 801 No. 45 exists

The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

Resistance and fitness must be verified and contact the manufacturer for information (see product overview and resistance table).



Specifications - Orifice D (effective area acc. to API: 0,110 in²)

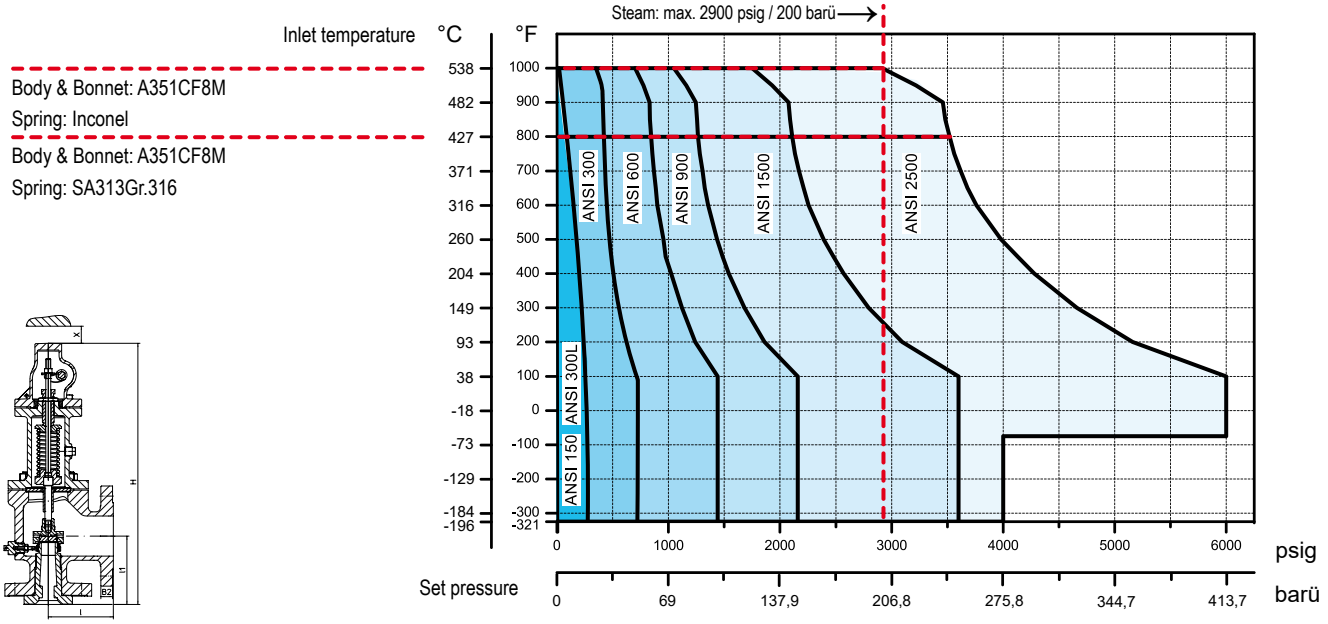
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit							Dimensions				Weight
					Inlet flange					Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	100°F	450°F	650°F	800°F	1000°F	100°F	100°F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
1 D 2	**SA216WCC**	**Chr. vanad.**	150	150	285	185	125			285	230	4 1/2	4 1/8	20	6	40
1 D 2	**SA216WCC**	**SA313Gr.316**	150	150		185	125	80		285	230	4 1/2	4 1/8	20	6	40
1 D 2	**SA216WCC**	**Inconel**	150	150		185	125	80		285	230	4 1/2	4 1/8	20	6	40
1 D 2	**SA216WCC**	**Chr. vanad.**	300L	150	285	285	285			285	230	4 1/2	4 1/8	20	6	43
1 D 2	**SA216WCC**	**SA313Gr.316**	300L	150		285	285	285		285	230	4 1/2	4 1/8	20	6	43
1 D 2	**SA216WCC**	**Inconel**	300L	150		285	285	285		285	230	4 1/2	4 1/8	20	6	43
1 D 2	**SA216WCC**	**Chr. vanad.**	300	150	740	615	590			285	230	4 1/2	4 1/8	20	6	45
1 D 2	**SA216WCC**	**SA313Gr.316**	300	150		615	590	410		285	230	4 1/2	4 1/8	20	6	45
1 D 2	**SA216WCC**	**Inconel**	300	150		615	590	410		285	230	4 1/2	4 1/8	20	6	45
1 D 2	SA217WC6	Inconel	300	150				510	215	285	230	4 1/2	4 1/8	20	6	45
1 D 2	**SA216WCC**	**Chr. vanad.**	600	150	1480	1235	1175			285	230	4 1/2	4 1/8	20	6	45
1 D 2	**SA216WCC**	**SA313Gr.316**	600	150		1235	1175	825		285	230	4 1/2	4 1/8	20	6	45
1 D 2	**SA216WCC**	**Inconel**	600	150		1235	1175	825		285	230	4 1/2	4 1/8	20	6	45
1 D 2	SA217WC6	Inconel	600	150				1015	430	285	230	4 1/2	4 1/8	20	6	45
1.5 D 2	SA216WCC	Chr. vanad.	900	300	2220	1845	1765			600	500	5 1/2	4 1/8	20	8	58
1.5 D 2	SA216WCC	SA313Gr.316	900	300		1845	1765	1235		600	500	5 1/2	4 1/8	20	8	58
1.5 D 2	SA216WCC	Inconel	900	300		1845	1765	1235		600	500	5 1/2	4 1/8	20	8	58
1.5 D 2	SA217WC6	Inconel	900	300				1525	650	600	500	5 1/2	4 1/8	20	8	58
1.5 D 2	SA216WCC	Chr. vanad.	1500	300	3705	3080	2940			600	500	5 1/2	4 1/8	20	8	58
1.5 D 2	SA216WCC	SA313Gr.316	1500	300		3080	2940	2060		600	500	5 1/2	4 1/8	20	8	58
1.5 D 2	SA216WCC	Inconel	1500	300		3080	2940	2060		600	500	5 1/2	4 1/8	20	8	58
1.5 D 2	SA217WC6	Inconel	1500	300				2540	1080	600	500	5 1/2	4 1/8	20	8	58
1.5 D 3	SA216WCC	Chr. vanad.	2500	300	6000	6000	4905			740	500	7	5 1/2	22 1/2	10	80
1.5 D 3	SA216WCC	SA313Gr.316	2500	300		6000	4905	3430		740	500	7	5 1/2	22 1/2	10	80
1.5 D 3	SA216WCC	Inconel	2500	300		6000	4905	3430		740	500	7	5 1/2	22 1/2	10	80
1.5 D 3	SA217WC6	Inconel	2500	300				4230	1800	740	500	7	5 1/2	22 1/2	10	80

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Valve dimensions H for bellows valves add 0,75 inch. Maximum l and l1 dimensions +/- 1/16 inch
3. API526 eliminated 2 1/2 inch flange sizes, however ARI will supply 2 1/2 inch flange sizes at no additional cost
4. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice D (effective area acc. to API: 0,110 in²)

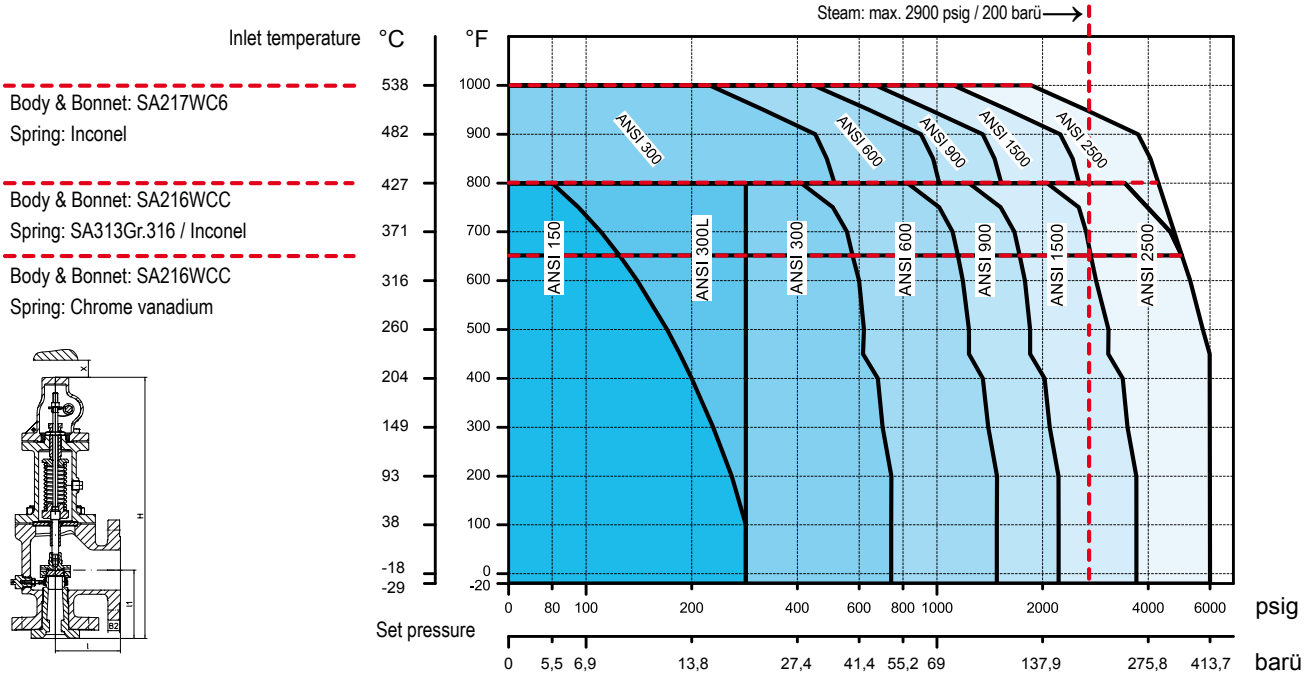
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit									Dimensions				Weight
					Inlet flange							Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	-321°F bis -76°F	-75°F bis -21°F	-20°F bis 100°F	450 °F	550 °F	800 °F	1000 °F	100 °F	100 °F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
1 D 2	SA351CF8M	SA313Gr.316	150	150	275	275	275	180	155			275	230	4 1/2	4 1/8	20	6	40
1 D 2	SA351CF8M	Inconel	150	150					155	80	20	275	230	4 1/2	4 1/8	20	6	40
1 D 2	SA351CF8M	SA313Gr.316	300L	150	275	275	275	275	275			275	230	4 1/2	4 1/8	20	6	43
1 D 2	SA351CF8M	Inconel	300L	150					275	275	275	275	230	4 1/2	4 1/8	20	6	43
1 D 2	SA351CF8M	SA313Gr.316	300	150	720	720	720	495	465			275	230	4 1/2	4 1/8	20	6	45
1 D 2	SA351CF8M	Inconel	300	150					465	420	350	275	230	4 1/2	4 1/8	20	6	45
1 D 2	SA351CF8M	SA313Gr.316	600	150	1440	1440	1440	975	928			275	230	4 1/2	4 1/8	20	6	45
1 D 2	SA351CF8M	Inconel	600	150					928	845	700	275	230	4 1/2	4 1/8	20	6	45
1.5 D 2	SA351CF8M	SA313Gr.316	900	300	2160	2160	2160	1485	1395			600	500	5 1/2	4 1/8	20	8	58
1.5 D 2	SA351CF8M	Inconel	900	300					1395	1265	1050	600	500	5 1/2	4 1/8	20	8	58
1.5 D 2	SA351CF8M	SA313Gr.316	1500	300	3600	3600	3600	2480	2323			600	500	5 1/2	4 1/8	20	8	58
1.5 D 2	SA351CF8M	Inconel	1500	300					2323	2110	1750	600	500	5 1/2	4 1/8	20	8	58
1.5 D 3	SA351CF8M	SA313Gr.316	2500	300	4000	6000	6000	4130	3870			720	500	7	5 1/2	22 1/2	10	80
1.5 D 3	SA351CF8M	Inconel	2500	300					3870	3520	2915	720	500	7	5 1/2	22 1/2	10	80

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Valve dimensions H for bellows valves add 3/4-inch. Maximum l and l1 dimensions +/- 1/16-inch
3. API526 eliminated 2 1/2-inch flange sizes, however ARI will supply 2 1/2-inch flange sizes at no additional cost.
4. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice E (effective area acc. to API: 0,196 in²)

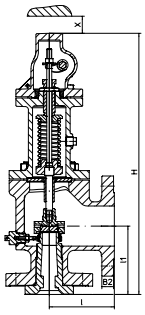
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit							Dimensions				Weight
					Inlet flange					Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	100°F	450°F	650°F	800°F	1000°F	100°F	100°F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
1 E 2	**SA216WCC**	**Chr. vanad.**	150	150	285	185	125			285	230	4 1/2	4 1/8	20	6	40
1 E 2	**SA216WCC**	**SA313Gr.316**	150	150		185	125	80		285	230	4 1/2	4 1/8	20	6	40
1 E 2	**SA216WCC**	**Inconel**	150	150		185	125	80		285	230	4 1/2	4 1/8	20	6	40
1 E 2	**SA216WCC**	**Chr. vanad.**	300L	150	285	285				285	230	4 1/2	4 1/8	20	6	43
1 E 2	**SA216WCC**	**SA313Gr.316**	300L	150		285	285	285		285	230	4 1/2	4 1/8	20	6	43
1 E 2	**SA216WCC**	**Inconel**	300L	150		285	285	285		285	230	4 1/2	4 1/8	20	6	43
1 E 2	**SA216WCC**	**Chr. vanad.**	300	150	740	615	590			285	230	4 1/2	4 1/8	20	6	45
1 E 2	**SA216WCC**	**SA313Gr.316**	300	150		615	590	410		285	230	4 1/2	4 1/8	20	6	45
1 E 2	**SA216WCC**	**Inconel**	300	150		615	590	410		285	230	4 1/2	4 1/8	20	6	45
1 E 2	SA217WC6	Inconel	300	150				510	215	285	230	4 1/2	4 1/8	20	6	45
1 E 2	**SA216WCC**	**Chr. vanad.**	600	150	1480	1235	1175			285	230	4 1/2	4 1/8	20	6	45
1 E 2	**SA216WCC**	**SA313Gr.316**	600	150		1235	1175	825		285	230	4 1/2	4 1/8	20	6	45
1 E 2	**SA216WCC**	**Inconel**	600	150		1235	1175	825		285	230	4 1/2	4 1/8	20	6	45
1 E 2	SA217WC6	Inconel	600	150				1015	430	285	230	4 1/2	4 1/8	20	6	45
1.5 E 2	SA216WCC	Chr. vanad.	900	300	2220	1845	1765			600	500	5 1/2	4 1/8	20	8	58
1.5 E 2	SA216WCC	SA313Gr.316	900	300		1845	1765	1235		600	500	5 1/2	4 1/8	20	8	58
1.5 E 2	SA216WCC	Inconel	900	300		1845	1765	1235		600	500	5 1/2	4 1/8	20	8	58
1.5 E 2	SA217WC6	Inconel	900	300				1525	650	600	500	5 1/2	4 1/8	20	8	58
1.5 E 2	SA216WCC	Chr. vanad.	1500	300	3705	3080	2940			600	500	5 1/2	4 1/8	20	8	58
1.5 E 2	SA216WCC	SA313Gr.316	1500	300		3080	2940	2060		600	500	5 1/2	4 1/8	20	8	58
1.5 E 2	SA216WCC	Inconel	1500	300		3080	2940	2060		600	500	5 1/2	4 1/8	20	8	58
1.5 E 2	SA217WC6	Inconel	1500	300				2540	1080	600	500	5 1/2	4 1/8	20	8	58
1.5 E 3	SA216WCC	Chr. vanad.	2500	300	6000	6000	4905			740	500	7	5 1/2	22 1/2	10	80
1.5 E 3	SA216WCC	SA313Gr.316	2500	300		6000	4905	3430		740	500	7	5 1/2	22 1/2	10	80
1.5 E 3	SA216WCC	Inconel	2500	300		6000	4905	3430		740	500	7	5 1/2	22 1/2	10	80
1.5 E 3	SA217WC6	Inconel	2500	300				4230	1800	740	500	7	5 1/2	22 1/2	10	80

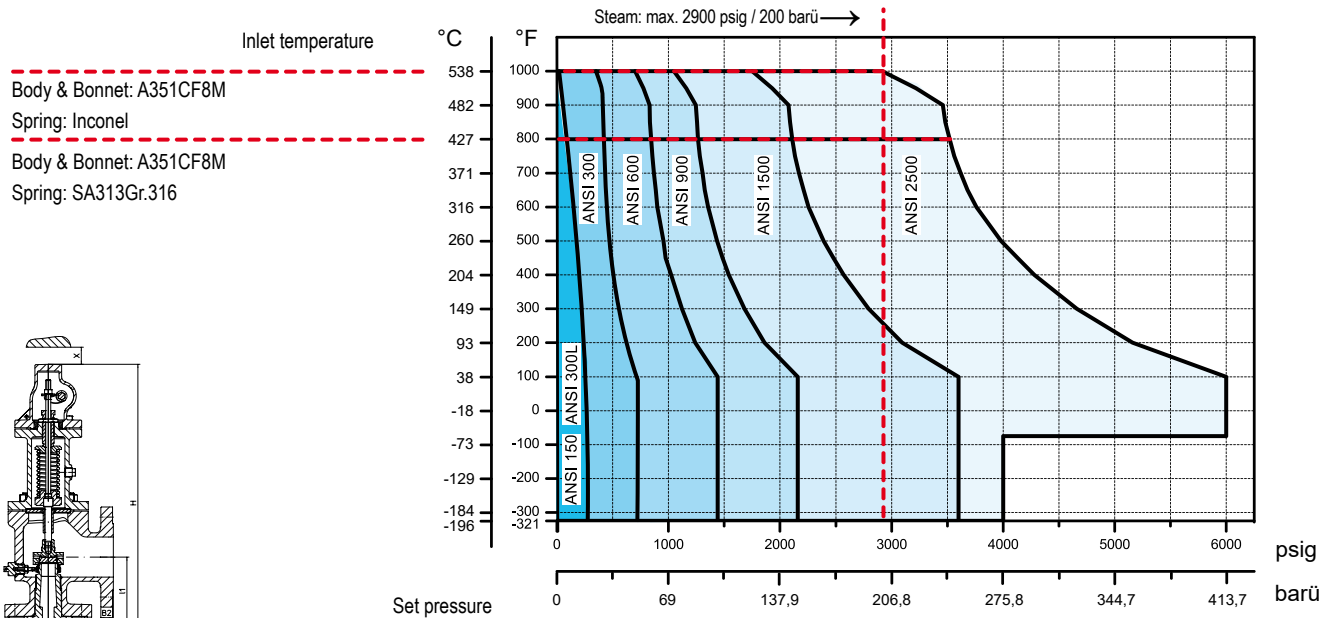
Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Valve dimensions H for bellows valves add 3/4-inch. Maximum l and l1 dimensions +/- 1/16-inch
3. API526 eliminated 2 1/2-inch flange sizes, however ARI will supply 2 1/2-inch flange sizes at no additional cost.
4. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34





Specifications - Orifice E (effective area acc. to API: 0,196 in²)

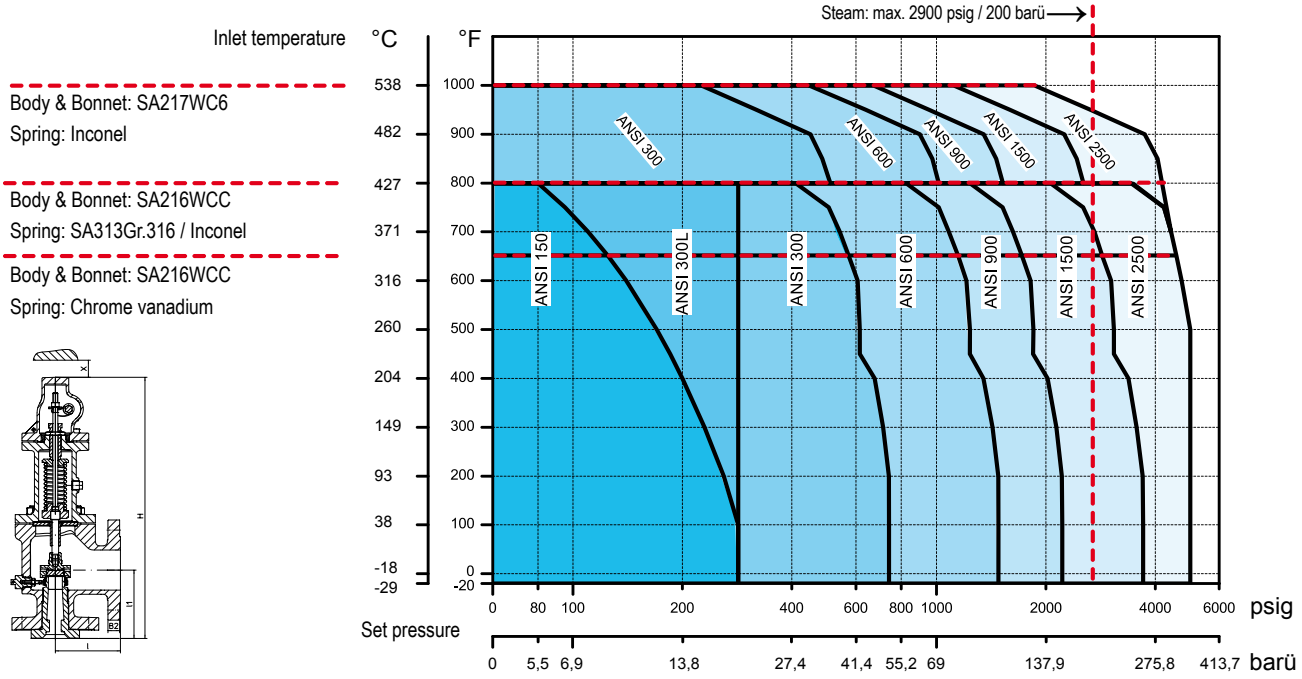
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit									Dimensions				Weight
					Inlet flange							Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	-321°F bis -76°F	-75°F bis -21°F	-20°F bis 100°F	450 °F	550 °F	800 °F	1000 °F	100 °F	100 °F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
1 E 2	SA351CF8M	SA313Gr.316	150	150	275	275	275	180	155			275	230	4 1/2	4 1/8	20	6	40
1 E 2	SA351CF8M	Inconel	150	150					155	80	20	275	230	4 1/2	4 1/8	20	6	40
1 E 2	SA351CF8M	SA313Gr.316	300L	150	275	275	275	275	275			275	230	4 1/2	4 1/8	20	6	43
1 E 2	SA351CF8M	Inconel	300L	150					275	275	275	275	230	4 1/2	4 1/8	20	6	43
1 E 2	SA351CF8M	SA313Gr.316	300	150	720	720	720	495	465			275	230	4 1/2	4 1/8	20	6	45
1 E 2	SA351CF8M	Inconel	300	150					465	420	350	275	230	4 1/2	4 1/8	20	6	45
1 E 2	SA351CF8M	SA313Gr.316	600	150	1440	1440	1440	975	928			275	230	4 1/2	4 1/8	20	6	45
1 E 2	SA351CF8M	Inconel	600	150					928	845	700	275	230	4 1/2	4 1/8	20	6	45
1.5 E 2	SA351CF8M	SA313Gr.316	900	300	2160	2160	2160	1485	1395			600	500	5 1/2	4 1/8	20	8	58
1.5 E 2	SA351CF8M	Inconel	900	300					1395	1265	1050	600	500	5 1/2	4 1/8	20	8	58
1.5 E 2	SA351CF8M	SA313Gr.316	1500	300	3600	3600	3600	2480	2323			600	500	5 1/2	4 1/8	20	8	58
1.5 E 2	SA351CF8M	Inconel	1500	300					2323	2110	1750	600	500	5 1/2	4 1/8	20	8	58
1.5 E 3	SA351CF8M	SA313Gr.316	2500	300	4000	6000	6000	4130	3870			720	500	7	5 1/2	22 1/2	10	80
1.5 E 3	SA351CF8M	Inconel	2500	300					3870	3520	2915	720	500	7	5 1/2	22 1/2	10	80

Center to face dimensions acc. to API 526 .

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Valve dimensions H for bellows valves add 3/4-inch. Maximum l and l1 dimensions +/- 1/16-inch
3. API526 eliminated 2 1/2-inch flange sizes, however ARI will supply 2 1/2-inch flange sizes at no additional cost.
4. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice F (effective area acc. to API: 0,307 in²)

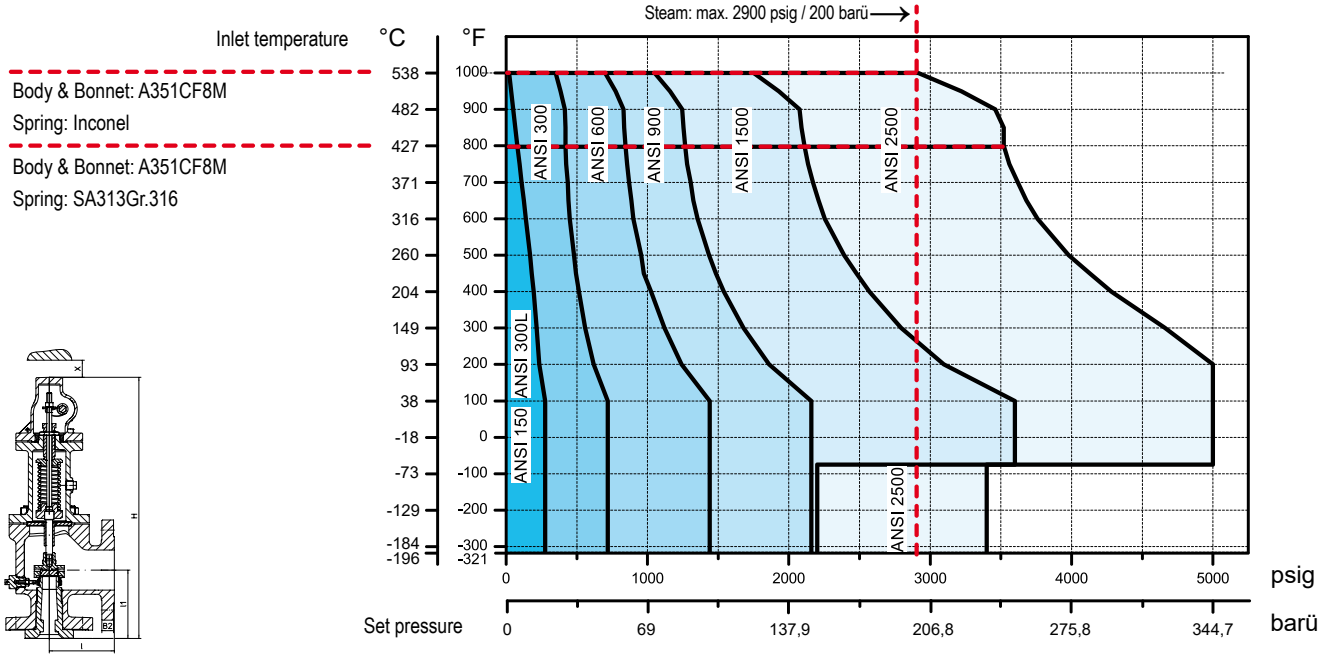
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit							Dimensions				Weight
					Inlet flange					Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	100°F	450°F	650°F	800°F	1000°F	100°F	100°F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
1.5 F 2	**SA216WCC**	**Chr. vanad.**	150	150	285	185	125			285	230	4 3/4	4 7/8	20 3/4	6	43
1.5 F 2	**SA216WCC**	**SA313Gr.316**	150	150		185	125	80		285	230	4 3/4	4 7/8	20 3/4	6	43
1.5 F 2	**SA216WCC**	**Inconel**	150	150		185	125	80		285	230	4 3/4	4 7/8	20 3/4	6	43
1.5 F 2	**SA216WCC**	**Chr. vanad.**	300L	150	285	285	285			285	230	4 3/4	4 7/8	20 3/4	6	47
1.5 F 2	**SA216WCC**	**SA313Gr.316**	300L	150		285	285	285		285	230	4 3/4	4 7/8	20 3/4	6	47
1.5 F 2	**SA216WCC**	**Inconel**	300L	150		285	285	285		285	230	4 3/4	4 7/8	20 3/4	6	47
1.5 F 2	**SA216WCC**	**Chr. vanad.**	300	150	740	615	590			285	230	6	4 7/8	20 3/4	6	50
1.5 F 2	**SA216WCC**	**SA313Gr.316**	300	150		615	590	410		285	230	6	4 7/8	20 3/4	6	50
1.5 F 2	**SA216WCC**	**Inconel**	300	150		615	590	410		285	230	6	4 7/8	20 3/4	6	50
1.5 F 2	SA217WC6	Inconel	300	150				510	215	285	230	6	4 7/8	20 3/4	6	50
1.5 F 2	**SA216WCC**	**Chr. vanad.**	600	150	1480	1235	1175			285	230	6	4 7/8	20 3/4	6	50
1.5 F 2	**SA216WCC**	**SA313Gr.316**	600	150		1235	1175	825		285	230	6	4 7/8	20 3/4	6	50
1.5 F 2	**SA216WCC**	**Inconel**	600	150		1235	1175	825		285	230	6	4 7/8	20 3/4	6	50
1.5 F 2	SA217WC6	Inconel	600	150				1015	430	285	230	6	4 7/8	20 3/4	6	50
1.5 F 3	SA216WCC	Chr. vanad.	900	300	2220	1845	1765			740	500	6 1/2	4 7/8	20 3/8	8	63
1.5 F 3	SA216WCC	SA313Gr.316	900	300		1845	1765	1235		740	500	6 1/2	4 7/8	20 3/8	8	63
1.5 F 3	SA216WCC	Inconel	900	300		1845	1765	1235		740	500	6 1/2	4 7/8	20 3/8	8	63
1.5 F 3	SA217WC6	Inconel	900	300				1525	650	740	500	6 1/2	4 7/8	20 3/8	8	63
1.5 F 3	SA216WCC	Chr. vanad.	1500	300	3705	3080	2940			740	500	6 1/2	4 7/8	21 3/4	8	68
1.5 F 3	SA216WCC	SA313Gr.316	1500	300		3080	2940	2060		740	500	6 1/2	4 7/8	21 3/4	8	68
1.5 F 3	SA216WCC	Inconel	1500	300		3080	2940	2060		740	500	6 1/2	4 7/8	21 3/4	8	68
1.5 F 3	SA217WC6	Inconel	1500	300				2540	1080	740	500	6 1/2	4 7/8	20 3/8	8	68
1.5 F 3	SA216WCC	Chr. vanad.	2500	300	5000	5000	4905			740	500	7	5 1/2	22 1/2	10	80
1.5 F 3	SA216WCC	SA313Gr.316	2500	300		5000	4905	3430		740	500	7	5 1/2	22 1/2	10	80
1.5 F 3	SA216WCC	Inconel	2500	300		5000	4905	3430		740	500	7	5 1/2	22 1/2	10	80
1.5 F 3	SA217WC6	Inconel	2500	300				4230	1800	740	500	7	5 1/2	22 1/2	10	80

Center to face dimensions acc. to API 526 .

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. API526 eliminated 2 1/2-inch flange sizes, however ARI will supply 2 1/2-inch flange sizes at no additional cost.
4. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice F (effective area acc. to API: 0,307 in²)

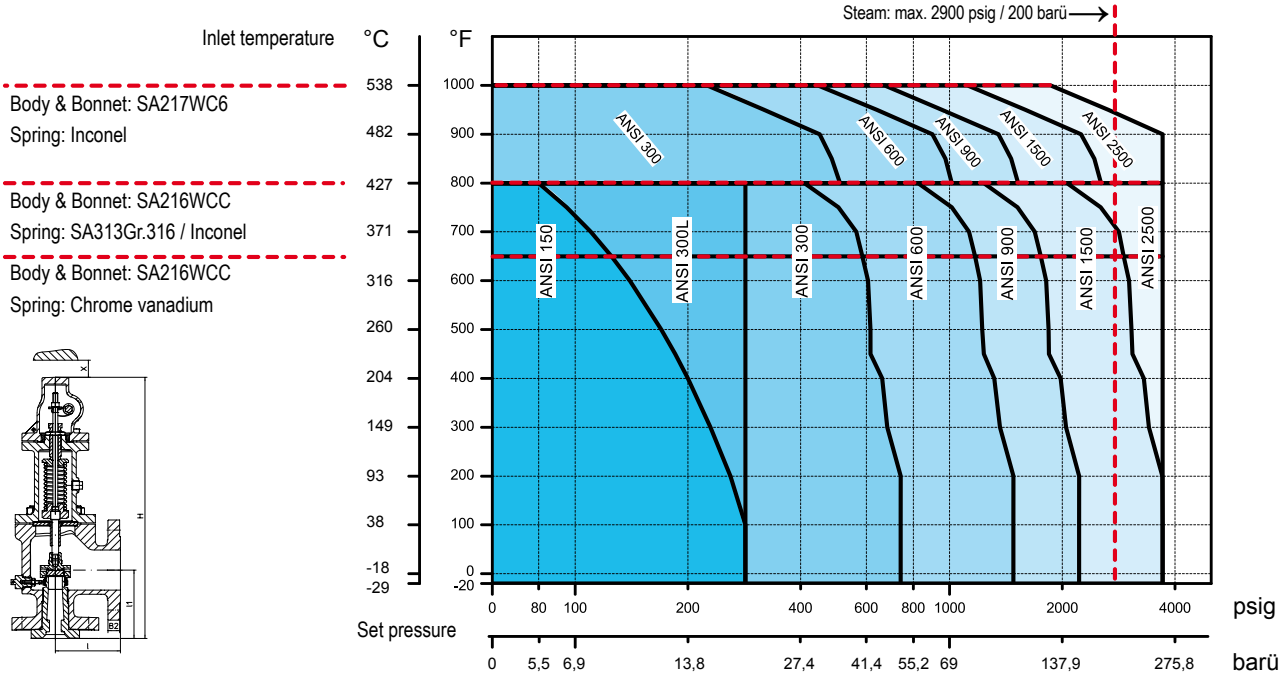
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit									Dimensions				Weight
					Inlet flange							Outlet flange	Bellows seal					
	Body & Bonnet	Spring	Inlet	Outlet	-321°F bis -76°F	-75°F bis -21°F	-20°F bis 100°F	450 °F	550 °F	800 °F	1000 °F	100 °F	100 °F	l	l1	Max. H	Min. X	
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
1.5 F 2	SA351CF8M	SA313Gr.316	150	150	275	275	275	180	155			275	230	4 3/4	4 7/8	20 3/4	6	43
1.5 F 2	SA351CF8M	Inconel	150	150					155	80	20	275	230	4 3/4	4 7/8	20 3/4	6	43
1.5 F 2	SA351CF8M	SA313Gr.316	300L	150	275	275	275	275	275			275	230	4 3/4	4 7/8	20 3/4	6	47
1.5 F 2	SA351CF8M	Inconel	300L	150					275	275	275	275	230	4 3/4	4 7/8	20 3/4	6	47
1.5 F 2	SA351CF8M	SA313Gr.316	300	150	720	720	720	495	465			275	230	6	4 7/8	20 3/4	6	50
1.5 F 2	SA351CF8M	Inconel	300	150					465	420	350	275	230	6	4 7/8	20 3/4	6	50
1.5 F 2	SA351CF8M	SA313Gr.316	600	150	1440	1440	1440	975	928			275	230	6	4 7/8	20 3/4	6	50
1.5 F 2	SA351CF8M	Inconel	600	150					928	845	700	275	230	6	4 7/8	20 3/4	6	50
1.5 F 3	SA351CF8M	SA313Gr.316	900	300	2160	2160	2160	1485	1395			720	500	6 1/2	4 7/8	20 3/8	8	63
1.5 F 3	SA351CF8M	Inconel	900	300					1395	1265	1050	720	500	6 1/2	4 7/8	20 3/8	8	63
1.5 F 3	SA351CF8M	SA313Gr.316	1500	300	2200	3600	3600	2480	2323			720	500	6 1/2	4 7/8	21 3/4	8	68
1.5 F 3	SA351CF8M	Inconel	1500	300					2323	2110	1750	720	500	6 1/2	4 7/8	21 3/4	8	68
1.5 F 3	SA351CF8M	SA313Gr.316	2500	300	3400	5000	5000	4130	3870			720	500	7	5 1/2	22 1/2	10	80
1.5 F 3	SA351CF8M	Inconel	2500	300					3870	3520	2915	720	500	7	5 1/2	22 1/2	10	80

Center to face dimensions acc. to API 526 .

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. API526 eliminated 2 1/2-inch flange sizes, however ARI will supply 2 1/2-inch flange sizes at no additional cost.
4. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice G (effective area acc. to API: 0,503 in²)

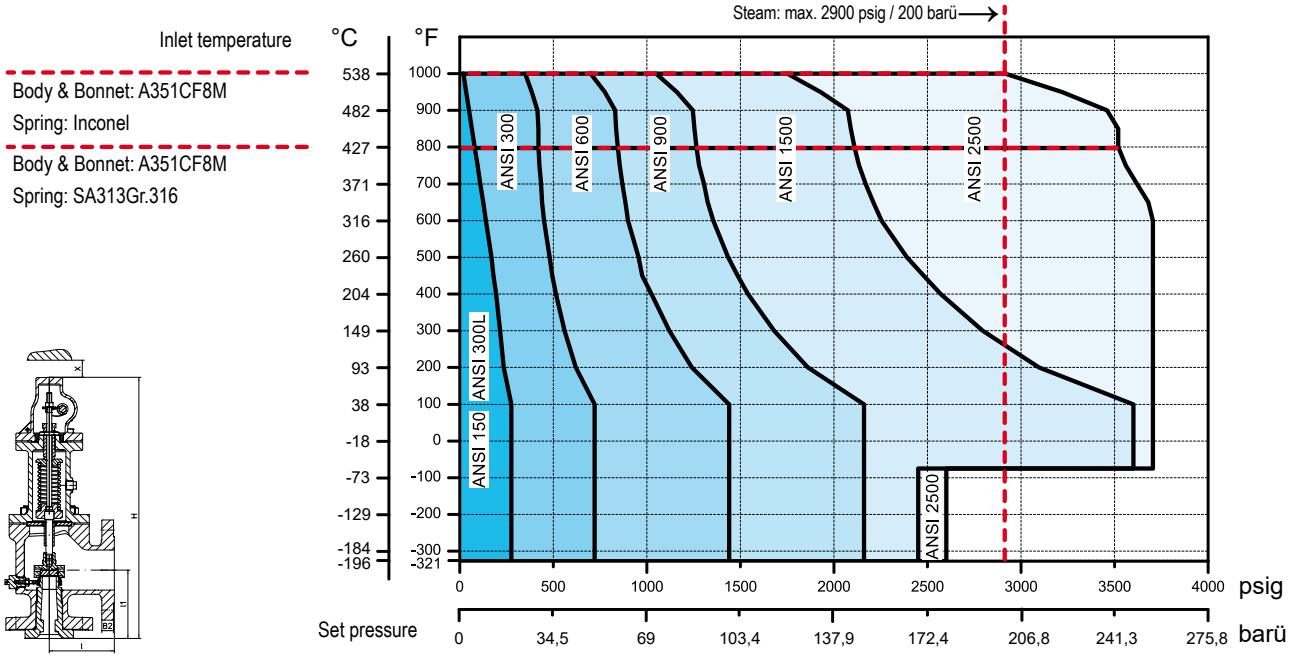
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit							Dimensions				Weight
					Inlet flange					Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	100°F	450°F	650°F	800°F	1000°F	100°F	100°F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
1.5 G 3	**SA216WCC**	**Chr. vanad.**	150	150	285	185	125			285	230	4 3/4	4 7/8	20 3/4	10	46
1.5 G 3	**SA216WCC**	**SA313Gr.316**	150	150		185	125	80		285	230	4 3/4	4 7/8	20 3/4	10	46
1.5 G 3	**SA216WCC**	**Inconel**	150	150		185	125	80		285	230	4 3/4	4 7/8	20 3/4	10	46
1.5 G 3	**SA216WCC**	**Chr. vanad.**	300L	150	285	285	285			285	230	4 3/4	4 7/8	20 3/4	10	50
1.5 G 3	**SA216WCC**	**SA313Gr.316**	300L	150		285	285	285		285	230	4 3/4	4 7/8	20 3/4	10	50
1.5 G 3	**SA216WCC**	**Inconel**	300L	150		285	285	285		285	230	4 3/4	4 7/8	20 3/4	10	50
1.5 G 3	**SA216WCC**	**Chr. vanad.**	300	150	740	615	605			285	230	6	4 7/8	20 3/4	10	55
1.5 G 3	**SA216WCC**	**SA313Gr.316**	300	150		615	605	410		285	230	6	4 7/8	20 3/4	10	55
1.5 G 3	**SA216WCC**	**Inconel**	300	150		615	605	410		285	230	6	4 7/8	20 3/4	10	55
1.5 G 3	SA217WC6	Inconel	300	150				510	215	285	230	6	4 7/8	20 3/4	10	55
1.5 G 3	**SA216WCC**	**Chr. vanad.**	600	150	1480	1235	1175			285	230	6	4 7/8	20 3/4	10	55
1.5 G 3	**SA216WCC**	**SA313Gr.316**	600	150		1235	1175	825		285	230	6	4 7/8	20 3/4	10	55
1.5 G 3	**SA216WCC**	**Inconel**	600	150		1235	1175	825		285	230	6	4 7/8	20 3/4	10	55
1.5 G 3	SA217WC6	Inconel	600	150				1015	430	285	230	6	4 7/8	20 3/4	10	55
1.5 G 3	SA216WCC	Chr. vanad.	900	300	2220	1845	1765			600	470	6 1/2	4 7/8	21 3/4	10	67
1.5 G 3	SA216WCC	SA313Gr.316	900	300		1845	1765	1235		600	470	6 1/2	4 7/8	21 3/4	10	67
1.5 G 3	SA216WCC	Inconel	900	300		1845	1765	1235		600	470	6 1/2	4 7/8	21 3/4	10	67
1.5 G 3	SA217WC6	Inconel	900	300				1525	650	600	500	6 1/2	4 7/8	21 3/4	10	67
2 G 3	SA216WCC	Chr. vanad.	1500	300	3705	3080	2940			600	470	6 3/4	6 1/8	25 1/5	12	140
2 G 3	SA216WCC	SA313Gr.316	1500	300		3080	2940	2060		600	470	6 3/4	6 1/8	25 1/5	12	140
2 G 3	SA216WCC	Inconel	1500	300		3080	2940	2060		600	470	6 3/4	6 1/8	25 1/5	12	140
2 G 3	SA217WC6	Inconel	1500	300				2540	1080	600	500	6 3/4	6 1/8	25 1/5	12	140
2 G 3	SA216WCC	Chr. vanad.	2500	300	3705	3705	3705			740	470	6 3/4	6 1/8	25 1/5	12	155
2 G 3	SA216WCC	SA313Gr.316	2500	300		3705	3705	3430		740	470	6 3/4	6 1/8	25 1/5	12	155
2 G 3	SA216WCC	Inconel	2500	300		3705	3705	3430		740	470	6 3/4	6 1/8	25 1/5	12	155
2 G 3	SA217WC6	Inconel	2500	300				3750	1800	740	500	6 3/4	6 1/8	25 1/5	12	155

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. API526 eliminated 2 1/2-inch flange sizes, however ARI will supply 2 1/2-inch flange sizes at no additional cost.
4. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice G (effective area acc. to API: 0,503 in²)

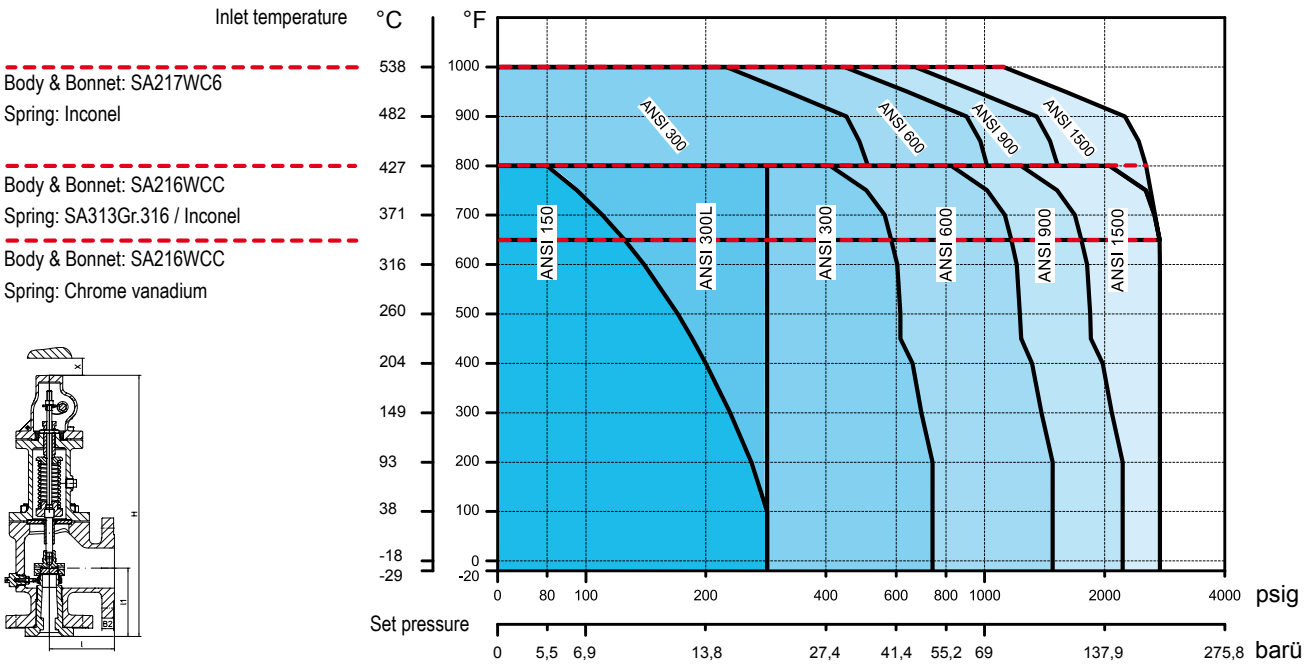
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit									Dimensions				Weight
					Inlet flange							Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	-321°F bis -76°F	-75°F bis -21°F	-20°F bis 100°F	450 °F	550 °F	800 °F	1000 °F	100 °F	100 °F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
1.5 G 3	SA351CF8M	SA313Gr.316	150	150	275	275	275	180	155			275	230	4 3/4	4 7/8	20 3/4	10	46
1.5 G 3	SA351CF8M	Inconel	150	150					155	80	20	275	230	4 3/4	4 7/8	20 3/4	10	46
1.5 G 3	SA351CF8M	SA313Gr.316	300L	150	275	275	275	275	275			275	230	4 3/4	4 7/8	20 3/4	10	50
1.5 G 3	SA351CF8M	Inconel	300L	150					275	275	275	275	230	4 3/4	4 7/8	20 3/4	10	50
1.5 G 3	SA351CF8M	SA313Gr.316	300	150	720	720	720	495	465			275	230	6	4 7/8	20 3/4	10	55
1.5 G 3	SA351CF8M	Inconel	300	150					465	420	350	275	230	6	4 7/8	20 3/4	10	55
1.5 G 3	SA351CF8M	SA313Gr.316	600	150	1440	1440	1440	975	928			275	230	6	4 7/8	20 3/4	10	55
1.5 G 3	SA351CF8M	Inconel	600	150					928	845	700	275	230	6	4 7/8	20 3/4	10	55
1.5 G 3	SA351CF8M	SA313Gr.316	900	300	2160	2160	2160	1485	1395			720	500	6 1/2	4 7/8	21 3/4	10	67
1.5 G 3	SA351CF8M	Inconel	900	300					1395	1265	1050	720	500	6 1/2	4 7/8	21 3/4	10	67
2 G 3	SA351CF8M	SA313Gr.316	1500	300	2450	3600	3600	2480	2323			720	500	6 3/4	6 1/8	25 1/5	12	140
2 G 3	SA351CF8M	Inconel	1500	300					2323	2110	1750	720	500	6 3/4	6 1/8	25 1/5	12	140
2 G 3	SA351CF8M	SA313Gr.316	2500	300	2600	3705	3705	3705	3705			720	500	6 3/4	6 1/8	25 1/5	12	155
2 G 3	SA351CF8M	Inconel	2500	300					3705	3520	2915	720	500	6 3/4	6 1/8	25 1/5	12	155

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. API526 eliminated 2 1/2-inch flange sizes, however ARI will supply 2 1/2-inch flange sizes at no additional cost.
4. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice H (effective area acc. to API: 0,785 in²)

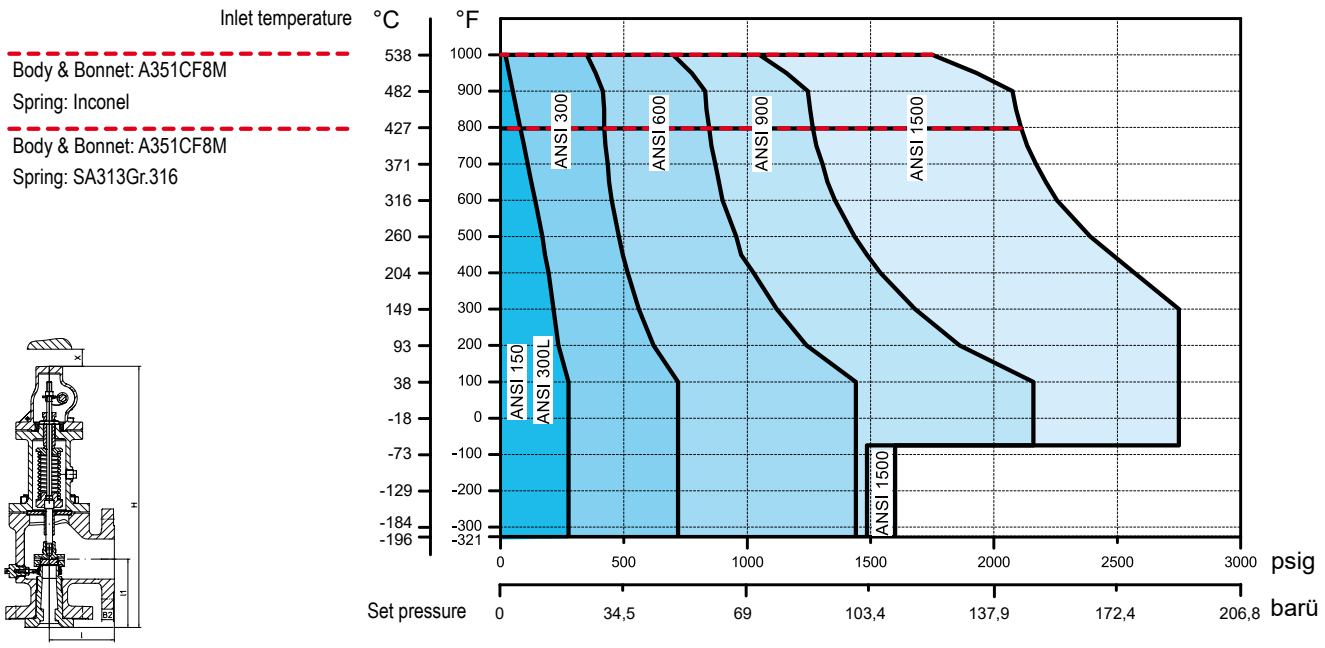
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit							Dimensions				Weight
					Inlet flange					Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	100°F	450°F	650°F	800°F	1000°F	100°F	100°F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
1.5 H 3	**SA216WCC**	**Chr. vanad.**	150	150	285	185	125			285	230	4 7/8	5 1/8	21	10	50
1.5 H 3	**SA216WCC**	**SA313Gr.316**	150	150		185	125	80		285	230	4 7/8	5 1/8	21	10	50
1.5 H 3	**SA216WCC**	**Inconel**	150	150		185	125	80		285	230	4 7/8	5 1/8	21	10	50
1.5 H 3	**SA216WCC**	**Chr. vanad.**	300L	150	285	285	285			285	230	4 7/8	5 1/8	21	10	54
1.5 H 3	**SA216WCC**	**SA313Gr.316**	300L	150		285	285	285		285	230	4 7/8	5 1/8	21	10	54
1.5 H 3	**SA216WCC**	**Inconel**	300L	150		285	285	285		285	230	4 7/8	5 1/8	21	10	54
2 H 3	**SA216WCC**	**Chr. vanad.**	300	150	740	615	590			285	230	4 7/8	5 1/8	21	12	58
2 H 3	**SA216WCC**	**SA313Gr.316**	300	150		615	590	410		285	230	4 7/8	5 1/8	21	12	58
2 H 3	**SA216WCC**	**Inconel**	300	150		615	590	410		285	230	4 7/8	5 1/8	21	12	58
2 H 3	SA217WC6	Inconel	300	150				510	215	285	230	4 7/8	5 1/8	21	12	58
2 H 3	**SA216WCC**	**Chr. vanad.**	600	150	1480	1235	1175			285	230	6 3/8	6 1/16	25 1/2	12	120
2 H 3	**SA216WCC**	**SA313Gr.316**	600	150		1235	1175	825		285	230	6 3/8	6 1/16	25 1/2	12	120
2 H 3	**SA216WCC**	**Inconel**	600	150		1235	1175	825		285	230	6 3/8	6 1/16	25 1/2	12	120
2 H 3	SA217WC6	Inconel	600	150				1015	430	285	230	4 7/8	5 1/8	21	12	120
2 H 3	SA216WCC	Chr. vanad.	900	150	2220	1845	1765			285	230	6 3/8	6 1/16	25 1/2	12	135
2 H 3	SA216WCC	SA313Gr.316	900	150		1845	1765	1235		285	230	6 3/8	6 1/16	25 1/2	12	135
2 H 3	SA216WCC	Inconel	900	150		1845	1765	1235		285	230	6 3/8	6 1/16	25 1/2	12	135
2 H 3	SA217WC6	Inconel	900	150				1525	650	285	230	6 3/8	6 1/16	25 1/2	12	135
2 H 3	SA216WCC	Chr. vanad.	1500	300	2750	2750	2745			740	415	6 3/8	6 1/16	25 1/2	12	140
2 H 3	SA216WCC	SA313Gr.316	1500	300		2750	2745	2055		740	415	6 3/8	6 1/16	25 1/2	12	140
2 H 3	SA216WCC	Inconel	1500	300		2750	2745	2055		740	415	6 3/8	6 1/16	25 1/2	12	140
2 H 3	SA217WC6	Inconel	1500	300				2540	1080	740	415	6 3/8	6 1/16	25 1/2	12	140

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice H (effective area acc. to API: 0,785 in²)

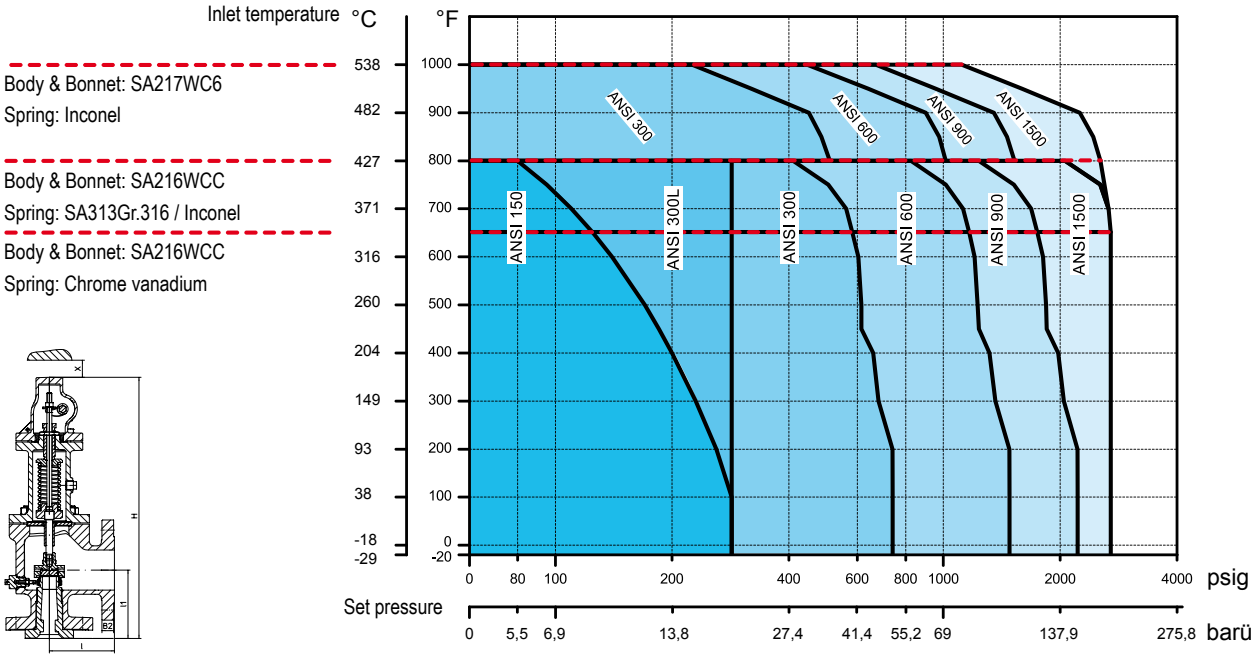
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit									Dimensions				Weight
					Inlet flange							Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	-321°F bis -76°F	-75°F bis -21°F	-20°F bis 100°F	450 °F	550 °F	800 °F	1000 °F	100 °F	100 °F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
1.5 H 3	SA351CF8M	SA313Gr.316	150	150	275	275	275	180	155			275	230	4 7/8	5 1/8	21	10	50
1.5 H 3	SA351CF8M	Inconel	150	150					155	80	20	275	230	4 7/8	5 1/8	21	10	50
1.5 H 3	SA351CF8M	SA313Gr.316	300L	150	275	275	275	275	275			275	230	4 7/8	5 1/8	21	10	54
1.5 H 3	SA351CF8M	Inconel	300L	150					275	275	275	275	230	4 7/8	5 1/8	21	10	54
2 H 3	SA351CF8M	SA313Gr.316	300	150	720	720	720	495	465			275	230	4 7/8	5 1/8	21	12	58
2 H 3	SA351CF8M	Inconel	300	150					465	420	350	275	230	4 7/8	5 1/8	21	12	58
2 H 3	SA351CF8M	SA313Gr.316	600	150	1440	1440	1440	975	928			275	230	6 3/8	6 1/16	25 1/2	12	120
2 H 3	SA351CF8M	Inconel	600	150					928	845	700	275	230	6 3/8	6 1/16	25 1/2	12	120
2 H 3	SA351CF8M	SA313Gr.316	900	150	1485	2160	2160	1485	1395			275	230	6 3/8	6 1/16	25 1/2	12	135
2 H 3	SA351CF8M	Inconel	900	150					1395	1265	1050	275	230	6 3/8	6 1/16	25 1/2	12	135
2 H 3	SA351CF8M	SA313Gr.316	1500	300	1600	2750	2750	2480	2323			600	415	6 3/8	6 1/16	25 1/2	12	140
2 H 3	SA351CF8M	Inconel	1500	300					2323	2110	1750	600	415	6 3/8	6 1/16	25 1/2	12	140

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice J (effective area acc. to API: 1,287 in²)

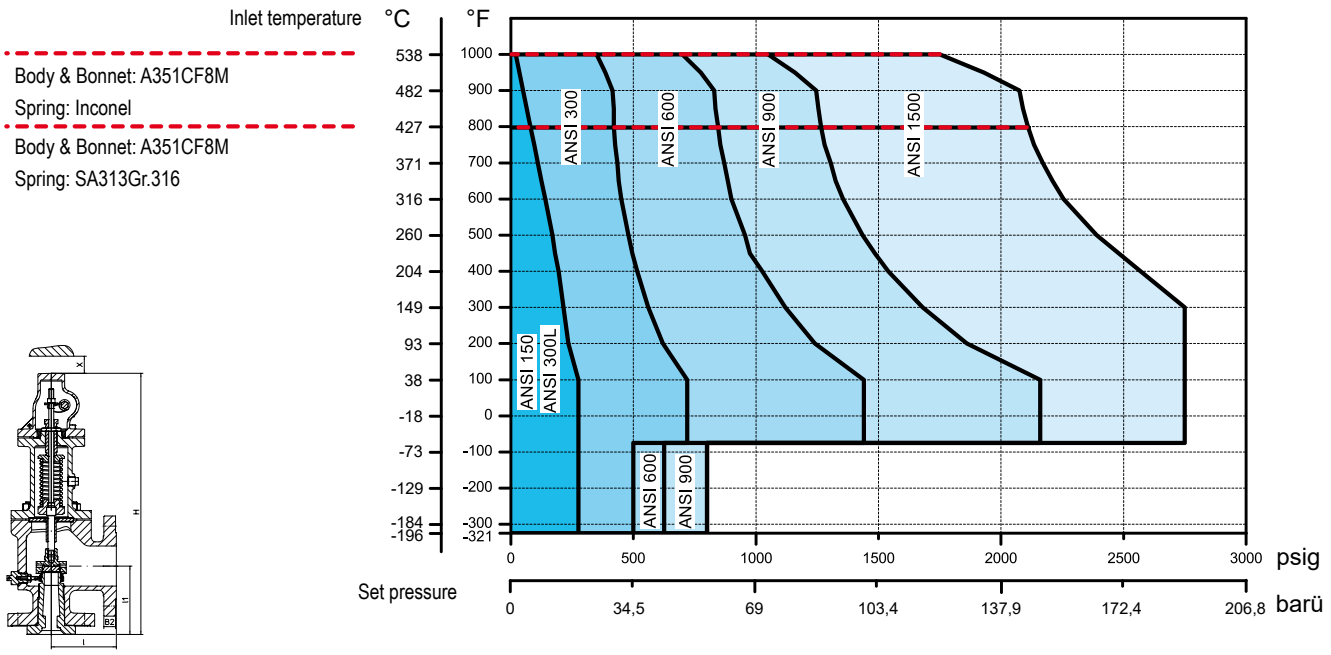
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit							Dimensions				Weight
					Inlet flange					Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	100°F	450°F	650°F	800°F	1000°F	100°F	100°F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
2 J 3	**SA216WCC**	**Chr. vanad.**	150	150	285	185	125			285	230	4 7/8	5 3/8	21 3/4	12	58
2 J 3	**SA216WCC**	**SA313Gr.316**	150	150		185	125	80		285	230	4 7/8	5 3/8	21 3/4	12	58
2 J 3	**SA216WCC**	**Inconel**	150	150		185	125	80		285	230	4 7/8	5 3/8	21 3/4	12	58
2 J 3	**SA216WCC**	**Chr. vanad.**	300L	150	285	285	285			285	230	4 7/8	5 3/8	21 3/4	12	62
2 J 3	**SA216WCC**	**SA313Gr.316**	300L	150		285	285	285		285	230	4 7/8	5 3/8	21 3/4	12	62
2 J 3	**SA216WCC**	**Inconel**	300L	150		285	285	285		285	230	4 7/8	5 3/8	21 3/4	12	62
3 J 4	**SA216WCC**	**Chr. vanad.**	300	150	740	615	590			285	230	7 1/8	7 1/4	22 3/4	14	205
3 J 4	**SA216WCC**	**SA313Gr.316**	300	150		615	590	410		285	230	7 1/8	7 1/4	22 3/4	14	205
3 J 4	**SA216WCC**	**Inconel**	300	150		615	590	410		285	230	7 1/8	7 1/4	22 3/4	14	205
3 J 4	SA217WC6	Inconel	300	150				510	215	285	230	7 1/8	7 1/4	22 3/4	14	205
3 J 4	**SA216WCC**	**Chr. vanad.**	600	150	1480	1235	1175			285	230	7 1/8	7 1/4	30 1/2	14	205
3 J 4	**SA216WCC**	**SA313Gr.316**	600	150		1235	1175	825		285	230	7 1/8	7 1/4	30 1/2	14	205
3 J 4	**SA216WCC**	**Inconel**	600	150		1235	1175	825		285	230	7 1/8	7 1/4	30 1/2	14	205
3 J 4	SA217WC6	Inconel	600	150				1015	430	285	230	7 1/8	7 1/4	30 1/2	14	205
3 J 4	SA216WCC	Chr. vanad.	900	150	2220	1845	1765			285	230	7 1/8	7 1/4	30 1/2	14	205
3 J 4	SA216WCC	SA313Gr.316	900	150		1845	1765	1235		285	230	7 1/8	7 1/4	30 1/2	14	205
3 J 4	SA216WCC	Inconel	900	150		1845	1765	1235		285	230	7 1/8	7 1/4	30 1/2	14	205
3 J 4	SA217WC6	Inconel	900	150				1525	650	285	230	7 1/8	7 1/4	30 1/2	14	205
3 J 4	SA216WCC	Chr. vanad.	1500	300	2700	2700				600	230	7 1/8	7 1/4	30 1/2	14	235
3 J 4	SA216WCC	SA313Gr.316	1500	300		2700	2700	2060		600	230	7 1/8	7 1/4	30 1/2	14	235
3 J 4	SA216WCC	Inconel	1500	300		2700	2700	2060		600	230	7 1/8	7 1/4	30 1/2	14	235
3 J 4	SA217WC6	Inconel	1500	300				2540	1080	600	230	7 1/8	7 1/4	30 1/2	14	235

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. API526 eliminated 2 1/2-inch flange sizes, however ARI will supply 2 1/2-inch flange sizes at no additional cost.
4. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice J (effective area acc. to API: 1,287 in²)

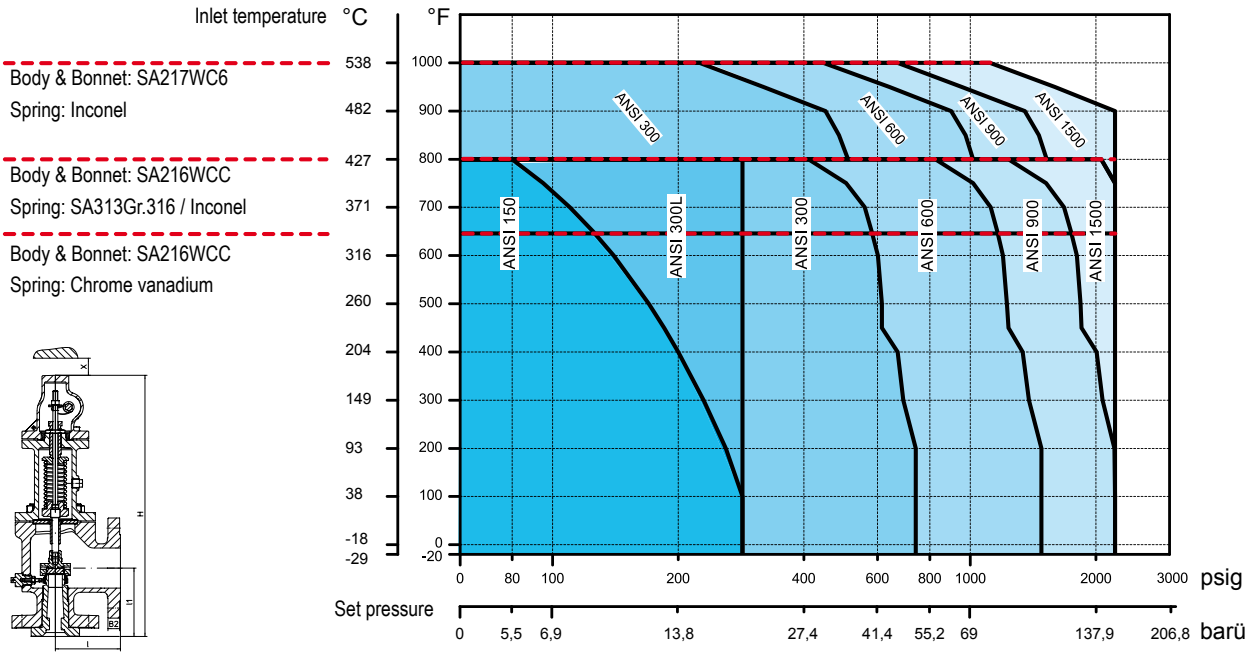
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit									Dimensions				Weight
					Inlet flange							Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	-321°F bis -76°F	-75°F bis -21°F	-20°F bis 100°F	450 °F	550 °F	800 °F	1000 °F	100 °F	100 °F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
2 J 3	SA351CF8M	SA313Gr.316	150	150	275	275	275	180	155			275	230	4 7/8	5 3/8	21 3/4	12	58
2 J 3	SA351CF8M	Inconel	150	150					155	80	20	275	230	4 7/8	5 3/8	21 3/4	12	58
2 J 3	SA351CF8M	SA313Gr.316	300L	150	275	275	275	275	275			275	230	4 7/8	5 3/8	21 3/4	12	62
2 J 3	SA351CF8M	Inconel	300L	150					275	275	275	275	230	4 7/8	5 3/8	21 3/4	12	62
3 J 4	SA351CF8M	SA313Gr.316	300	150	500	720	720	495	465			275	230	7 1/8	7 1/4	22 3/4	14	205
3 J 4	SA351CF8M	Inconel	300	150					465	420	350	275	230	7 1/8	7 1/4	22 3/4	14	205
3 J 4	SA351CF8M	SA313Gr.316	600	150	625	1440	1440	975	928			275	230	7 1/8	7 1/4	30 1/2	14	205
3 J 4	SA351CF8M	Inconel	600	150					928	845	700	275	230	7 1/8	7 1/4	30 1/2	14	205
3 J 4	SA351CF8M	SA313Gr.316	900	150	800	2160	2160	1485	1395			275	230	7 1/8	7 1/4	30 1/2	14	205
3 J 4	SA351CF8M	Inconel	900	150					1395	1265	1050	275	230	7 1/8	7 1/4	30 1/2	14	205
3 J 4	SA351CF8M	SA313Gr.316	1500	300	800	2750	2750	2480	2323			600	230	7 1/8	7 1/4	30 1/2	14	235
3 J 4	SA351CF8M	Inconel	1500	300					2323	2110	1750	600	230	7 1/8	7 1/4	30 1/2	14	235

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. API526 eliminated 2 1/2-inch flange sizes, however ARI will supply 2 1/2-inch flange sizes at no additional cost.
4. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice K (effective area acc. to API: 1,838 in²)

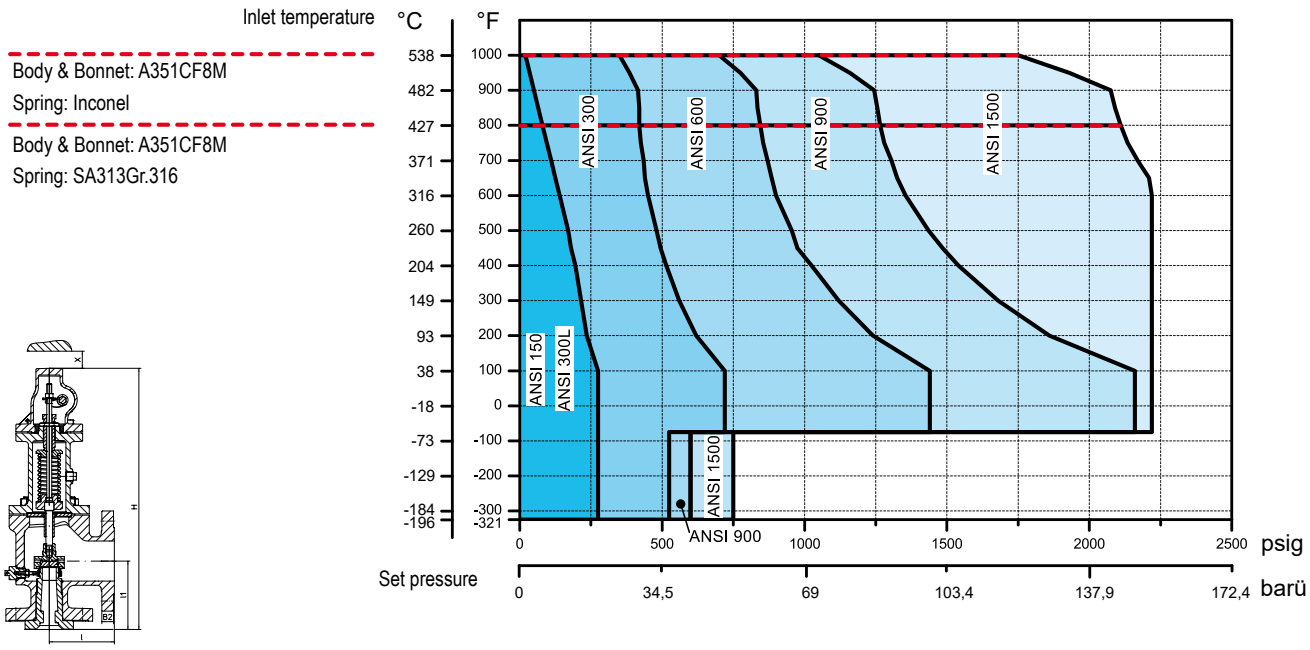
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit							Dimensions				Weight
					Inlet flange					Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	100°F	450°F	650°F	800°F	1000°F	100°F	100°F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
3 K 4	**SA216WCC**	**Chr. vanad.**	150	150	285	185	125			285	150	6 3/8	6 1/8	26 1/2	14	120
3 K 4	**SA216WCC**	**SA313Gr.316**	150	150		185	125	80		285	150	6 3/8	6 1/8	26 1/2	14	120
3 K 4	**SA216WCC**	**Inconel**	150	150		185	125	80		285	150	6 3/8	6 1/8	26 1/2	14	120
3 K 4	**SA216WCC**	**Chr. vanad.**	300L	150	285	285	285			285	150	6 3/8	6 1/8	26 1/2	14	130
3 K 4	**SA216WCC**	**SA313Gr.316**	300L	150		285	285	285		285	150	6 3/8	6 1/8	26 1/2	14	130
3 K 4	**SA216WCC**	**Inconel**	300L	150		285	285	285		285	150	6 3/8	6 1/8	26 1/2	14	130
3 K 4	**SA216WCC**	**Chr. vanad.**	300	150	740	615	590			285	150	6 3/8	6 1/8	26 1/2	14	135
3 K 4	**SA216WCC**	**SA313Gr.316**	300	150		615	590	410		285	150	6 3/8	6 1/8	26 1/2	14	135
3 K 4	**SA216WCC**	**Inconel**	300	150		615	590	410		285	150	6 3/8	6 1/8	26 1/2	14	135
3 K 4	SA217WC6	Inconel	300	150				510	215	285	150	6 3/8	6 1/8	26 1/2	14	135
3 K 4	**SA216WCC**	**Chr. vanad.**	600	150	1480	1235	1175			285	200	7 1/8	7 1/4	30 1/2	14	185
3 K 4	**SA216WCC**	**SA313Gr.316**	600	150		1235	1175	825		285	200	7 1/8	7 1/4	30 1/2	14	185
3 K 4	**SA216WCC**	**Inconel**	600	150		1235	1175	825		285	200	7 1/8	7 1/4	30 1/2	14	185
3 K 4	SA217WC6	Inconel	600	150				1015	430	285	200	7 1/8	7 1/4	26 1/2	14	185
3 K 6	SA216WCC	Chr. vanad.	900	150	2220	1845	1765			285	200	8 1/2	7 13/16	34 1/4	20	215
3 K 6	SA216WCC	SA313Gr.316	900	150		1845	1765	1235		285	200	8 1/2	7 13/16	34 1/4	20	215
3 K 6	SA216WCC	Inconel	900	150		1845	1765	1235		285	200	8 1/2	7 13/16	34 1/4	20	215
3 K 6	SA217WC6	Inconel	900	150				1525	650	285	230	8 1/2	7 13/16	30 1/2	20	215
3 K 6	SA216WCC	Chr. vanad.	1500	300	2220	2220	2220			600	200	8 1/2	7 3/4	34 1/4	20	255
3 K 6	SA216WCC	SA313Gr.316	1500	300		2220	2220	2060		600	200	8 1/2	7 3/4	34 1/4	20	255
3 K 6	SA216WCC	Inconel	1500	300		2220	2220	2060		600	200	8 1/2	7 3/4	34 1/4	20	255
3 K 6	SA217WC6	Inconel	1500	300				2220	1080	600	230	8 1/2	7 3/4	34 1/4	20	255

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. API526 eliminated 2 1/2-inch flange sizes, however ARI will supply 2 1/2-inch flange sizes at no additional cost.
4. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



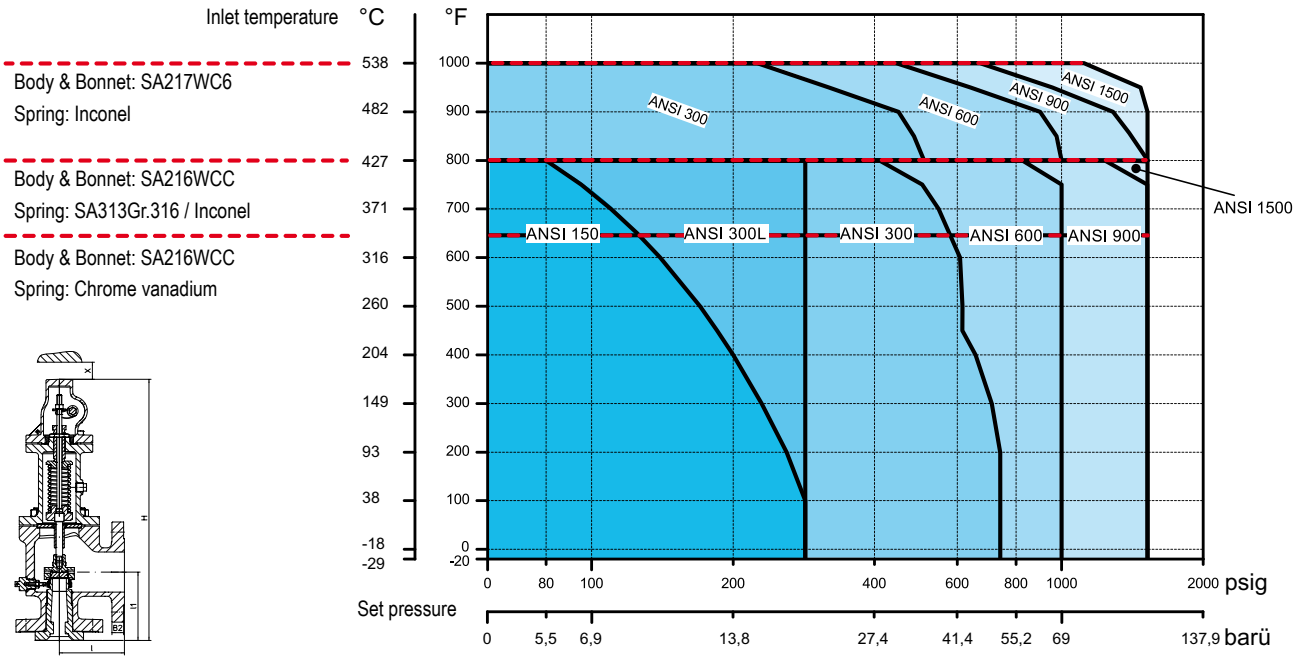
Specifications - Orifice K (effective area acc. to API: 1,838 in²)

Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit									Dimensions				Weight
					Inlet flange							Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	-321°F bis -76°F	-75°F bis -21°F	-20°F bis 100°F	450 °F	550 °F	800 °F	1000 °F	100 °F	100 °F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
3 K 4	SA351CF8M	SA313Gr.316	150	150	275	275	275	180	155			275	230	6 3/8	6 1/8	26 1/2	14	120
3 K 4	SA351CF8M	Inconel	150	150					155	80	20	275	230	6 3/8	6 1/8	26 1/2	14	120
3 K 4	SA351CF8M	SA313Gr.316	300L	150	275	275	275	275	275			275	230	6 3/8	6 1/8	26 1/2	14	130
3 K 4	SA351CF8M	Inconel	300L	150					275	275	275	275	230	6 3/8	6 1/8	26 1/2	14	130
3 K 4	SA351CF8M	SA313Gr.316	300	150	525	720	720	495	465			275	230	6 3/8	6 1/8	26 1/2	14	135
3 K 4	SA351CF8M	Inconel	300	150					465	420	350	275	230	6 3/8	6 1/8	26 1/2	14	135
3 K 4	SA351CF8M	SA313Gr.316	600	150	600	1440	1440	975	928			275	230	7 1/8	7 1/4	30 1/2	14	185
3 K 4	SA351CF8M	Inconel	600	150					928	845	700	275	230	7 1/8	7 1/4	30 1/2	14	185
3 K 6	SA351CF8M	SA313Gr.316	900	150	600	2160	2160	1485	1395			275	230	8 1/2	7 13/16	34 1/4	20	215
3 K 6	SA351CF8M	Inconel	900	150					1395	1265	1050	275	230	8 1/2	7 13/16	34 1/4	20	215
3 K 6	SA351CF8M	SA313Gr.316	1500	300	750	2220	2220	2220	2220			600	230	8 1/2	7 3/4	34 1/4	20	255
3 K 6	SA351CF8M	Inconel	1500	300					2220	2110	1750	600	230	8 1/2	7 3/4	34 1/4	20	255

Center to face dimensions acc. to API 526. Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. API526 eliminated 2 1/2-inch flange sizes, however ARI will supply 2 1/2-inch flange sizes at no additional cost.
4. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice L (effective area acc. to API: 2,853 in²)

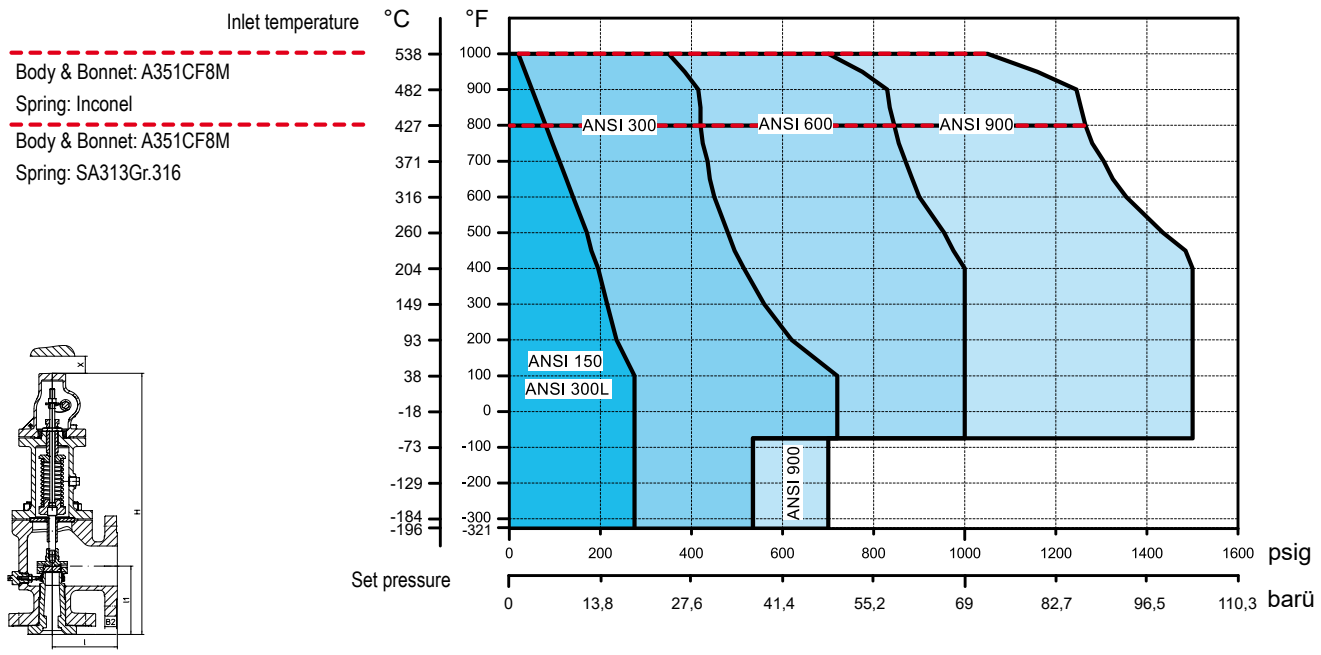
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit							Dimensions				Weight
					Inlet flange					Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	100°F	450°F	650°F	800°F	1000°F	100°F	100°F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
3 L 4	**SA216WCC**	**Chr. vanad.**	150	150	285	185	125			285	100	6 1/2	6 1/8	26 1/2	14	130
3 L 4	**SA216WCC**	**SA313Gr.316**	150	150		185	125	80		285	100	6 1/2	6 1/8	26 1/2	14	130
3 L 4	**SA216WCC**	**Inconel**	150	150		185	125	80		285	100	6 1/2	6 1/8	26 1/2	14	130
3 L 4	**SA216WCC**	**Chr. vanad.**	300L	150	285	285	285			285	100	6 1/2	6 1/8	26 1/2	14	140
3 L 4	**SA216WCC**	**SA313Gr.316**	300L	150			285	285		285	100	6 1/2	6 1/8	26 1/2	14	140
3 L 4	**SA216WCC**	**Inconel**	300L	150		285	285	285		285	100	6 1/2	6 1/8	26 1/2	14	140
4 L 6	**SA216WCC**	**Chr. vanad.**	300	150	740	615	590			285	170	7 1/8	7 1/16	30 1/4	20	200
4 L 6	**SA216WCC**	**SA313Gr.316**	300	150		615	590	410		285	170	7 1/8	7 1/16	30 1/4	20	200
4 L 6	**SA216WCC**	**Inconel**	300	150		615	590	410		285	170	7 1/8	7 1/16	30 1/4	20	200
4 L 6	SA217WC6	Inconel	300	150				510	215	285	170	7 1/8	7 1/16	30 1/4	20	200
4 L 6	**SA216WCC**	**Chr. vanad.**	600	150	1000	1000	1000			285	170	8	7 1/16	30 1/4	20	220
4 L 6	**SA216WCC**	**SA313Gr.316**	600	150		1000	1000	825		285	170	8	7 1/16	30 1/4	20	220
4 L 6	**SA216WCC**	**Inconel**	600	150		1000	1000	825		285	170	8	7 1/16	30 1/4	20	220
4 L 6	SA217WC6	Inconel	600	150				1000	430	285	170	8	7 1/16	30 1/4	20	220
4 L 6	SA216WCC	Chr. vanad.	900	150	1500	1500	1500			285	170	8 3/4	7 3/4	34 1/4	20	250
4 L 6	SA216WCC	SA313Gr.316	900	150		1500	1500	1235		285	170	8 3/4	7 3/4	34 1/4	20	250
4 L 6	SA216WCC	Inconel	900	150		1500	1500	1235		285	170	8 3/4	7 3/4	34 1/4	20	250
4 L 6	SA217WC6	Inconel	900	150				1500	650	285	170	8 3/4	7 3/4	34 1/4	20	250
4 L 6	SA216WCC	Inconel	1500	150		1500	1500	1500		285	170	8 3/4	7 3/4	34 1/4	20	270
4 L 6	SA216WCC	SA313Gr.316	1500	150		1500	1500	1500		285	170	8 3/4	7 3/4	34 1/4	20	270
4 L 6	SA217WC6	Inconel	1500	150				1500	1080	600	170	8 3/4	7 3/4	34 1/4	20	270

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice L (effective area acc. to API: 2,853 in²)

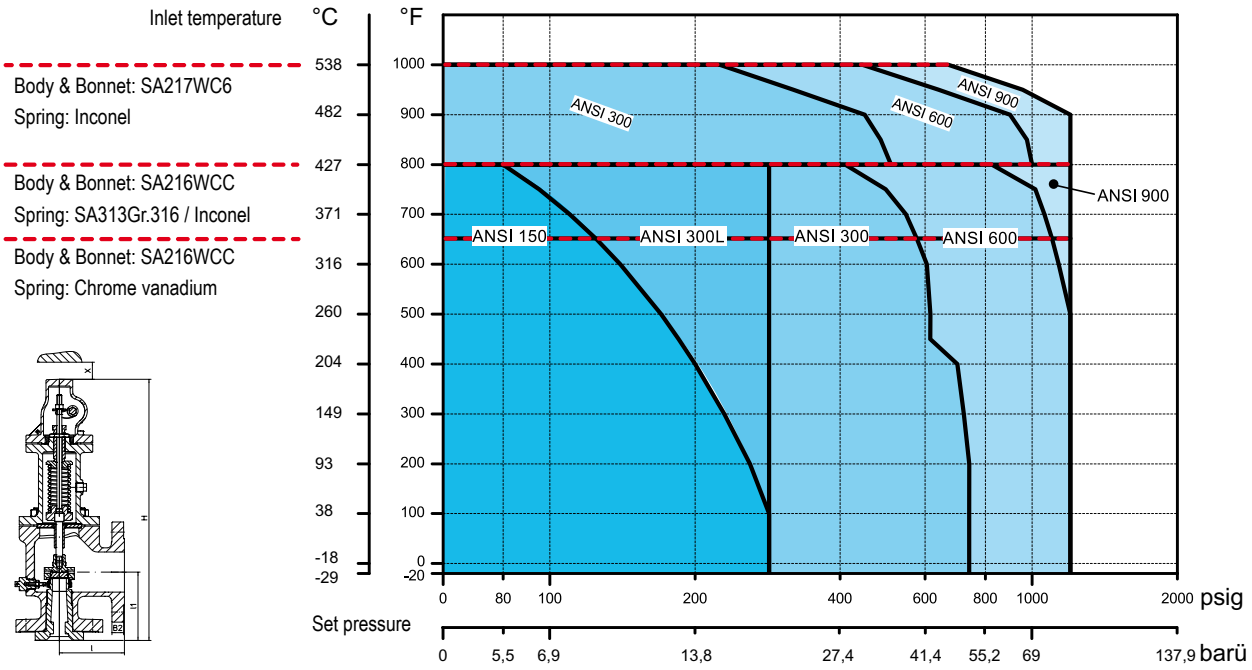
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit									Dimensions				Weight
					Inlet flange							Outlet flange	Bellows seal					
	Body & Bonnet	Spring	Inlet	Outlet	-321°F bis -76°F	-75°F bis -21°F	-20°F bis 100°F	450 °F	550 °F	800 °F	1000 °F	100 °F	100 °F	l	l1	Max. H	Min. X	
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
3 L 4	SA351CF8M	SA313Gr.316	150	150	275	275	275	180	155			275	100	6 1/2	6 1/8	26 1/2	14	130
3 L 4	SA351CF8M	Inconel	150	150					155	80	20	275	100	6 1/2	6 1/8	26 1/2	14	130
3 L 4	SA351CF8M	SA313Gr.316	300L	150	275	275	275	275	275			275	100	6 1/2	6 1/8	26 1/2	14	140
3 L 4	SA351CF8M	Inconel	300L	150					275	275	275	275	100	6 1/2	6 1/8	26 1/2	14	140
4 L 6	SA351CF8M	SA313Gr.316	300	150	535	720	720	495	465			275	170	7 1/8	7 1/16	30 1/4	20	200
4 L 6	SA351CF8M	Inconel	300	150					465	420	350	275	170	7 1/8	7 1/16	30 1/4	20	200
4 L 6	SA351CF8M	SA313Gr.316	600	150	535	1000	1000	975	928			275	170	8	7 1/16	30 1/4	20	220
4 L 6	SA351CF8M	Inconel	600	150					928	835	700	275	170	8	7 1/16	30 1/4	20	220
4 L 6	SA351CF8M	SA313Gr.316	900	150	700	1500	1500	1485	1395			275	170	8 3/4	7 3/4	34 1/4	20	250
4 L 6	SA351CF8M	Inconel	900	150					1395	1265	1050	275	170	8 3/4	7 3/4	34 1/4	20	250

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice M (effective area acc. to API: 3,60 in²)

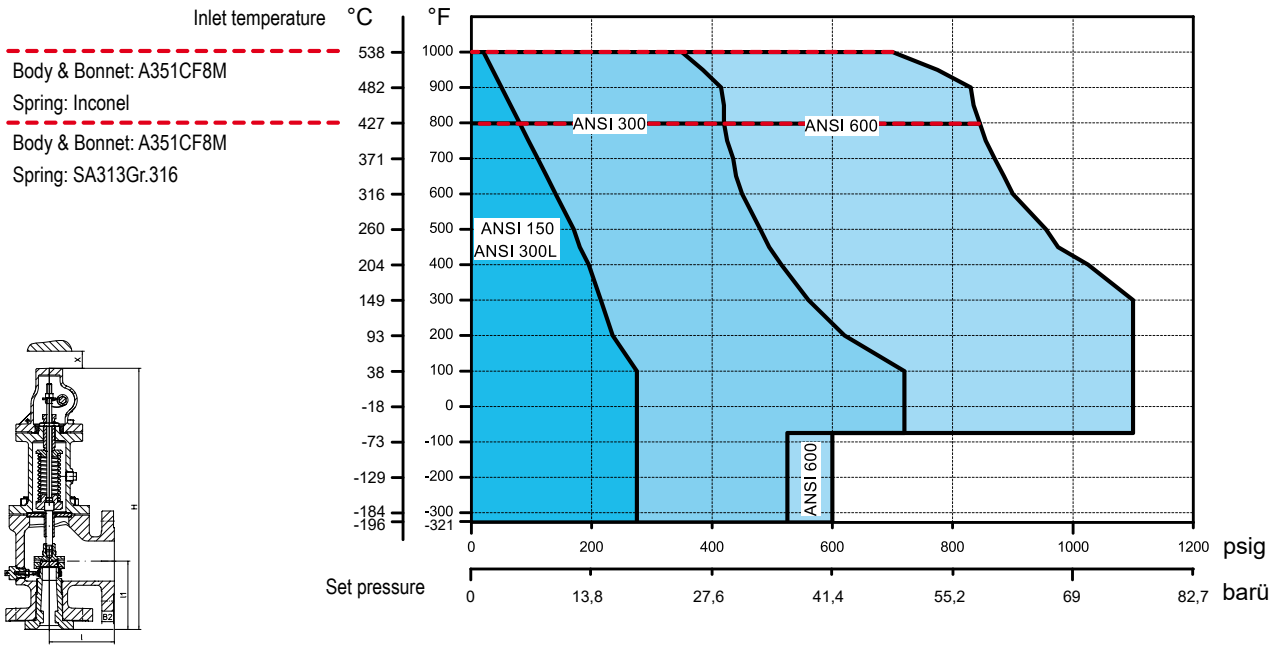
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit							Dimensions				Weight
					Inlet flange					Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	100°F	450°F	650°F	800°F	1000°F	100°F	100°F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
4 M 6	**SA216WCC**	**Chr. vanad.**	150	150	285	185	125			285	80	7 1/4	7	30 1/4	20	190
4 M 6	**SA216WCC**	**SA313Gr.316**	150	150		185	125	80		285	80	7 1/4	7	30 1/4	20	190
4 M 6	**SA216WCC**	**Inconel**	150	150		185	125	80		285	80	7 1/4	7	30 1/4	20	190
4 M 6	**SA216WCC**	**Chr. vanad.**	300L	150	285	285	285			285	80	7 1/4	7	30 1/4	20	200
4 M 6	**SA216WCC**	**SA313Gr.316**	300L	150		285	285	285		285	80	7 1/4	7	30 1/4	20	200
4 M 6	**SA216WCC**	**Inconel**	300L	150		285	285	285		285	80	7 1/4	7	30 1/4	20	200
4 M 6	**SA216WCC**	**Chr. vanad.**	300	150	740	615	590			285	160	7 1/4	7	30 1/4	20	205
4 M 6	**SA216WCC**	**SA313Gr.316**	300	150		615	590	410		285	160	7 1/4	7	30 1/4	20	205
4 M 6	**SA216WCC**	**Inconel**	300	150		615	590	410		285	160	7 1/4	7	30 1/4	20	205
4 M 6	SA217WC6	Inconel	300	150				510	215	285	160	7 1/4	7	30 1/4	20	205
4 M 6	**SA216WCC**	**Chr. vanad.**	600	150	1100	1100	1100			285	160	8	7	33 3/4	20	230
4 M 6	**SA216WCC**	**SA313Gr.316**	600	150		1100	1100	825		285	160	8	7	33 3/4	20	230
4 M 6	**SA216WCC**	**Inconel**	600	150		1100	1100	825		285	160	8	7	33 3/4	20	230
4 M 6	SA217WC6	Inconel	600	150				1000	430	285	160	8	7	33 3/4	20	230
4 M 6	SA216WCC	Inconel	900	150		1100	1100			285	160	8 3/4	7 3/4	34 1/4	20	260
4 M 6	SA216WCC	SA313Gr.316	900	150		1100	1100	1100	650	285	160	8 3/4	7 3/4	34 1/4	20	260
4 M 6	SA217WC6	Inconel	900	150				1100	650	285	160	8 3/4	7 3/4	34 1/4	20	260

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice M (effective area acc. to API: 3,60 in²)

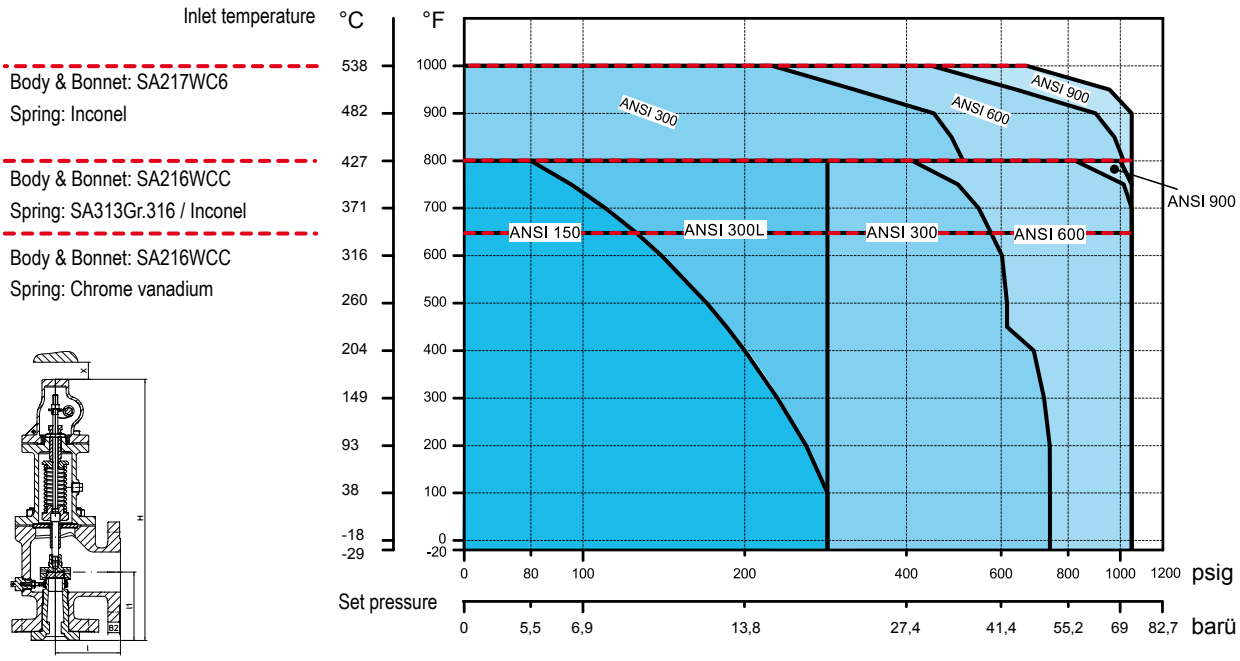
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit									Dimensions				Weight
					Inlet flange							Outlet flange	Bellows seal					
	Body & Bonnet	Spring	Inlet	Outlet	-321°F bis -76°F	-75°F bis -21°F	-20°F bis 100°F	450 °F	550 °F	800 °F	1000 °F	100 °F	100 °F	I	I1	Max. H	Min. X	
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
4 M 6	SA351CF8M	SA313Gr.316	150	150	275	275	275	180	155			275	80	7 1/4	7	30 1/4	20	190
4 M 6	SA351CF8M	Inconel	150	150					155	80	20	275	80	7 1/4	7	30 1/4	20	190
4 M 6	SA351CF8M	SA313Gr.316	300L	150	275	275	275	275	275			275	160	7 1/4	7	30 1/4	20	200
4 M 6	SA351CF8M	Inconel	300L	150					275	275	275	275	160	7 1/4	7	30 1/4	20	200
4 M 6	SA351CF8M	SA313Gr.316	300	150	525	720	720	495	465			275	160	7 1/4	7	30 1/4	20	205
4 M 6	SA351CF8M	Inconel	300	150					465	420	350	275	160	7 1/4	7	30 1/4	20	205
4 M 6	SA351CF8M	SA313Gr.316	600	150	600	1100	1100	975	928			275	160	8	7	33 3/4	20	230
4 M 6	SA351CF8M	Inconel	600	150					928	845	700	275	160	8	7	33 3/4	20	230

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum I and I1 dimensions +/- 1/16-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice N (effective area acc. to API: 4,34 in²)

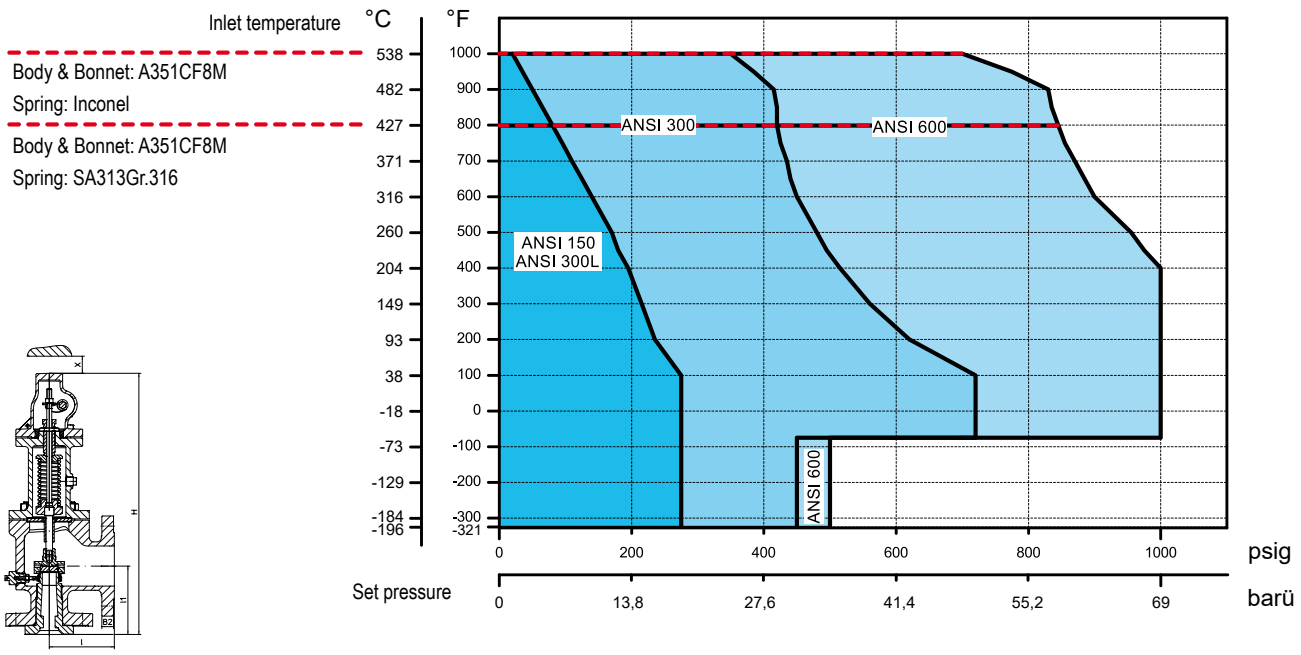
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit							Dimensions				Weight
					Inlet flange					Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	100°F	450°F	650°F	800°F	1000°F	100°F	100°F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
4 N 6	**SA216WCC**	**Chr. vanad.**	150	150	285	185	125			285	80	8 1/4	7 3/4	31 1/2	20	200
4 N 6	**SA216WCC**	**SA313Gr.316**	150	150		185	125	80		285	80	8 1/4	7 3/4	31 1/2	20	200
4 N 6	**SA216WCC**	**Inconel**	150	150		185	125	80		285	80	8 1/4	7 3/4	31 1/2	20	200
4 N 6	**SA216WCC**	**Chr. vanad.**	300L	150	285	285	285			285	160	8 1/4	7 3/4	31 1/2	20	200
4 N 6	**SA216WCC**	**SA313Gr.316**	300L	150		285	285	285		285	160	8 1/4	7 3/4	31 1/2	20	200
4 N 6	**SA216WCC**	**Inconel**	300L	150		285	285	285		285	160	8 1/4	7 3/4	31 1/2	20	200
4 N 6	**SA216WCC**	**Chr. vanad.**	300	150	740	615	590			285	160	8 1/4	7 3/4	35	20	230
4 N 6	**SA216WCC**	**SA313Gr.316**	300	150		615	590	410		285	160	8 1/4	7 3/4	35	20	230
4 N 6	**SA216WCC**	**Inconel**	300	150		615	590	410		285	160	8 1/4	7 3/4	35	20	230
4 N 6	SA217WC6	Inconel	300	150				510	215	285	160	8 1/4	7 3/4	31 1/2	20	230
4 N 6	**SA216WCC**	**Chr. vanad.**	600	150	1000	1000	1000			285	160	8 3/4	7 3/4	35	20	250
4 N 6	**SA216WCC**	**SA313Gr.316**	600	150		1000	1000	825		285	160	8 3/4	7 3/4	35	20	250
4 N 6	**SA216WCC**	**Inconel**	600	150		1000	1000	825		285	160	8 3/4	7 3/4	35	20	250
4 N 6	SA217WC6	Inconel	600	150				1000	430	285	160	8 3/4	7 3/4	35	20	250
4 N 6	SA216WCC	Inconel	900	150		1000	1000	1000		285	160	8 3/4	7 3/4	35	20	270
4 N 6	SA217WC6	SA313Gr.316	900	150		1000	1000	1000		285	160	8 3/4	7 3/4	35	20	270
4 N 6	SA217WC6	Inconel	900	150				1000	650	285	160	8 3/4	7 3/4	35	20	270

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



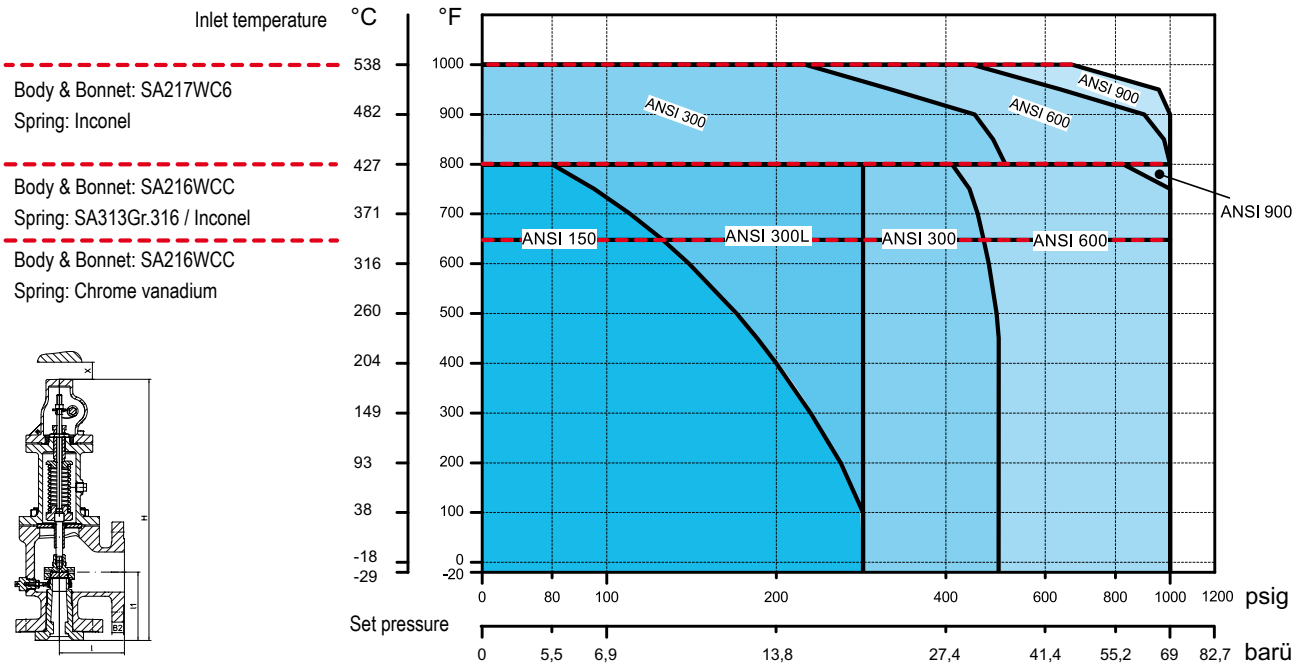
Specifications - Orifice N (effective area acc. to API: 4,34 in²)

Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit									Dimensions				Weight
					Inlet flange							Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	-321°F bis -76°F	-75°F bis -21°F	-20°F bis 100°F	450 °F	550 °F	800 °F	1000 °F	100 °F	100 °F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
4 N 6	SA351CF8M	SA313Gr.316	150	150	275	275	275	180	155			275	80	8 1/4	7 3/4	31 1/2	20	200
4 N 6	SA351CF8M	Inconel	150	150					155	80	20	275	80	8 1/4	7 3/4	31 1/2	20	200
4 N 6	SA351CF8M	SA313Gr.316	300L	150	275	275	275	275	275			275	160	8 1/4	7 3/4	31 1/2	20	200
4 N 6	SA351CF8M	Inconel	300L	150					275	275	275	275	160	8 1/4	7 3/4	31 1/2	20	200
4 N 6	SA351CF8M	SA313Gr.316	300	150	450	720	720	495	465			275	160	8 1/4	7 3/4	35	20	230
4 N 6	SA351CF8M	Inconel	300	150					465	420	350	275	160	8 1/4	7 3/4	35	20	230
4 N 6	SA351CF8M	SA313Gr.316	600	150	500	1000	1000	975	928			275	160	8 3/4	7 3/4	35	20	250
4 N 6	SA351CF8M	Inconel	600	150					928	845	700	275	160	8 3/4	7 3/4	35	20	250

Center to face dimensions acc. to API 526. Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice P (effective area acc. to API: 6,38 in²)

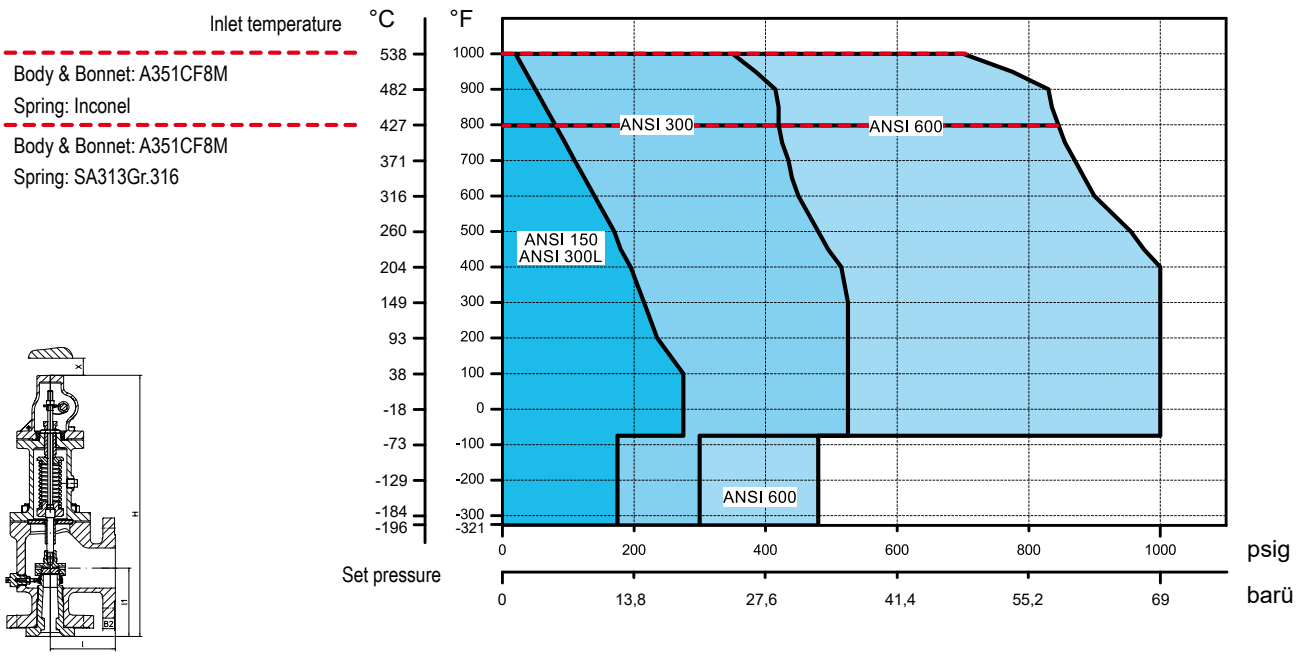
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit							Dimensions				Weight
					Inlet flange					Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	100°F	450°F	650°F	800°F	1000°F	100°F	100°F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
4 P 6	**SA216WCC**	**Chr. vanad.**	150	150	285	185	125			285	80	9	7 1/8	30 7/8	20	210
4 P 6	**SA216WCC**	**SA313Gr.316**	150	150		185	125	80		285	80	9	7 1/8	30 7/8	20	210
4 P 6	**SA216WCC**	**Inconel**	150	150		185	125	80		285	80	9	7 1/8	30 7/8	20	210
4 P 6	**SA216WCC**	**Chr. vanad.**	300L	150	285	285	285			285	80	9	7 1/8	30 7/8	20	220
4 P 6	**SA216WCC**	**SA313Gr.316**	300L	150		285	285	285		285	80	9	7 1/8	30 7/8	20	220
4 P 6	**SA216WCC**	**Inconel**	300L	150		285	285	285		285	80	9	7 1/8	30 7/8	20	220
4 P 6	**SA216WCC**	**Chr. vanad.**	300	150	525	525	525			285	150	10	8 7/8	42 1/2	20	330
4 P 6	**SA216WCC**	**SA313Gr.316**	300	150		525	525	410		285	150	10	8 7/8	42 1/2	20	330
4 P 6	**SA216WCC**	**Inconel**	300	150		525	525	410		285	150	10	8 7/8	42 1/2	20	330
4 P 6	SA217WC6	Inconel	300	150				510	215	285	160	10	8 7/8	42 1/2	20	330
4 P 6	**SA216WCC**	**Chr. vanad.**	600	150	1000	1000	1000			285	150	10	8 7/8	42 1/2	20	360
4 P 6	**SA216WCC**	**SA313Gr.316**	600	150		1000	1000	825		285	150	10	8 7/8	42 1/2	20	360
4 P 6	**SA216WCC**	**Inconel**	600	150		1000	1000	825		285	150	10	8 7/8	42 1/2	20	360
4 P 6	SA217WC6	Inconel	600	150				1000	430	285	160	10	8 7/8	42 1/2	20	360
4 P 6	SA216WCC	SA313Gr.316	900	150		1000	1000	1000		285	150	10	8 7/8	42 1/2	20	380
4 P 6	SA216WCC	Inconel	900	150		1000	1000	1000		285	150	10	8 7/8	42 1/2	20	380
4 P 6	SA217WC6	Inconel	900	150				1000	650	285	160	10	8 7/8	42 1/2	20	380

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



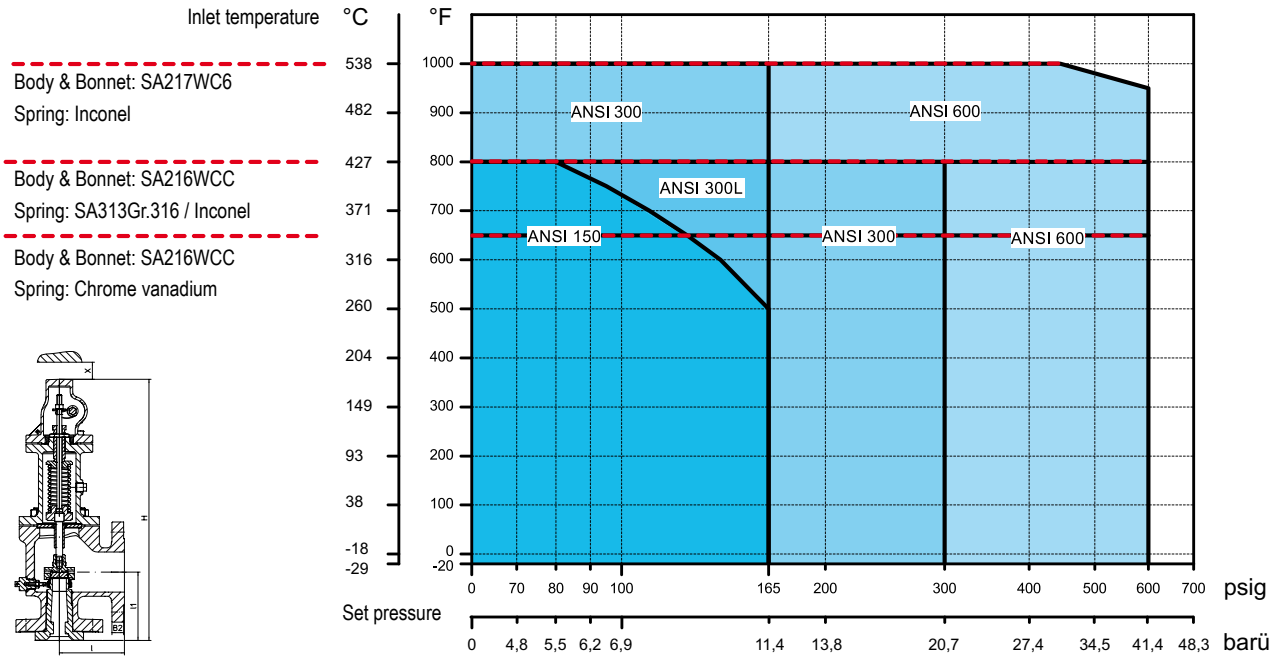
Specifications - Orifice P (effective area acc. to API: 6,38 in²)

Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit									Dimensions				Weight
					Inlet flange							Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	-321°F bis -76°F	-75°F bis -21°F	-20°F bis 100°F	450 °F	550 °F	800 °F	1000 °F	100 °F	100 °F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
4 P 6	SA351CF8M	SA313Gr.316	150	150	175	275	275	180	155			275	80	9	7 1/8	30 7/8	20	210
4 P 6	SA351CF8M	Inconel	150	150					155	80	20	275	80	9	7 1/8	30 7/8	20	210
4 P 6	SA351CF8M	SA313Gr.316	300L	150	175	275	275	275	275			275	160	9	7 1/8	30 7/8	20	220
4 P 6	SA351CF8M	Inconel	300L	150					275	275	275	275	160	9	7 1/8	30 7/8	20	220
4 P 6	SA351CF8M	SA313Gr.316	300	150	300	525	525	495	465			275	160	10	8 7/8	42 1/2	20	330
4 P 6	SA351CF8M	Inconel	300	150					465	420	350	275	160	10	8 7/8	42 1/2	20	330
4 P 6	SA351CF8M	SA313Gr.316	600	150	480	1000	1000	975	928			275	160	10	8 7/8	42 1/2	20	360
4 P 6	SA351CF8M	Inconel	600	150					928	845	700	275	160	10	8 7/8	42 1/2	20	360

Center to face dimensions acc. to API 526. Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/16-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice Q (effective area acc. to API: 11,05 in²)

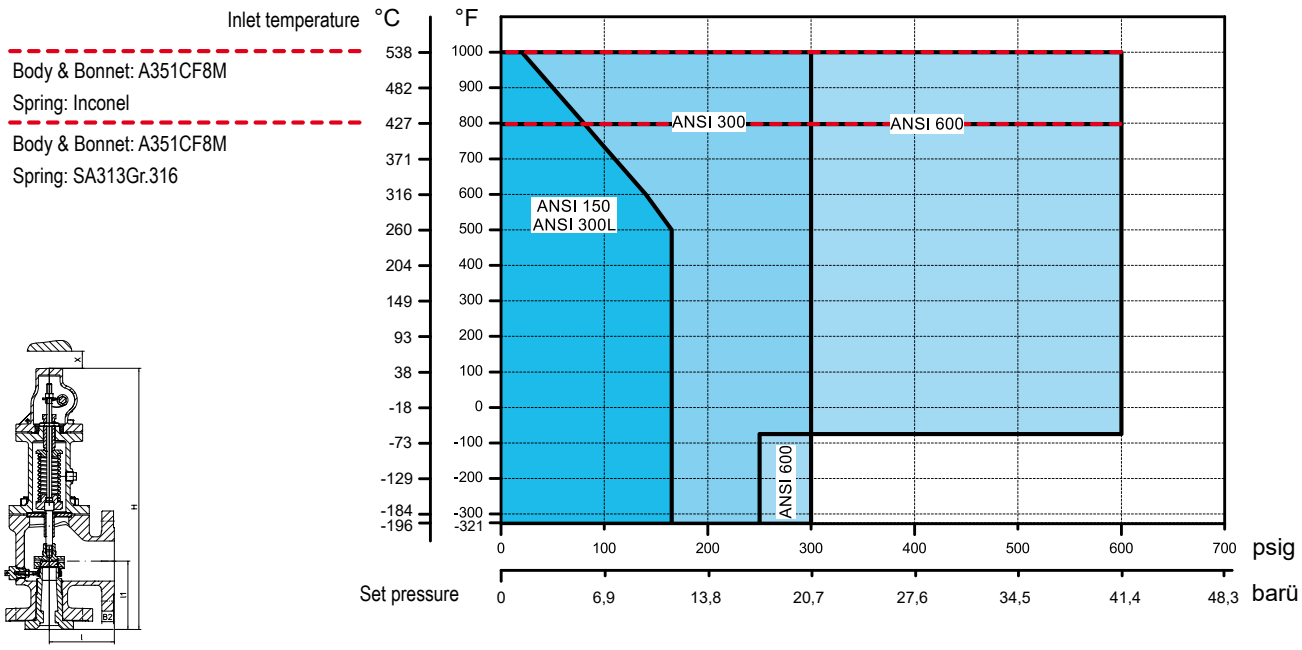
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit							Dimensions				Weight
					Inlet flange					Outlet flange	Bellows seal	I	I1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	100°F	450°F	650°F	800°F	1000°F	100°F	100°F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
6 Q 8	SA216WCC	Chr. vanad.	150	150	165	165	125			115	70	9 1/2	9 7/16	45 1/2	20	480
6 Q 8	SA216WCC	SA313Gr.316	150	150		165	125	80		115	70	9 1/2	9 7/16	45 1/2	20	480
6 Q 8	SA216WCC	Inconel	150	150		165	125	80		115	70	9 1/2	9 7/16	45 1/2	20	480
6 Q 8	SA216WCC	Chr. vanad.	300L	150	165	165	165			115	70	9 1/2	9 7/16	45 1/2	20	500
6 Q 8	SA216WCC	SA313Gr.316	300L	150		165	165	165		115	70	9 1/2	9 7/16	45 1/2	20	500
6 Q 8	SA216WCC	Inconel	300L	150		165	165	165		115	70	9 1/2	9 7/16	45 1/2	20	500
6 Q 8	SA216WCC	Chr. vanad.	300	150	300	300	300			115	115	9 1/2	9 7/16	45 1/2	20	520
6 Q 8	SA216WCC	SA313Gr.316	300	150		300	300	300		115	115	9 1/2	9 7/16	45 1/2	20	520
6 Q 8	SA216WCC	Inconel	300	150		300	300	300		115	115	9 1/2	9 7/16	45 1/2	20	520
6 Q 8	SA217WC6	Inconel	300	150		300		165	165	115	115	9 1/2	9 7/16	45 1/2	20	520
6 Q 8	SA216WCC	Chr. vanad.	600	150	600	600	600			115	115	9 1/2	9 7/16	49 1/2	20	630
6 Q 8	SA216WCC	SA313Gr.316	600	150		600	600	600		115	115	9 1/2	9 7/16	49 1/2	20	630
6 Q 8	SA216WCC	Inconel	600	150		600	600	600		115	115	9 1/2	9 7/16	49 1/2	20	630
6 Q 8	SA217WC6	Inconel	600	150				600	430	115	115	9 1/2	9 7/16	49 1/2	20	630

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum I and I1 dimensions +/- 1/8-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



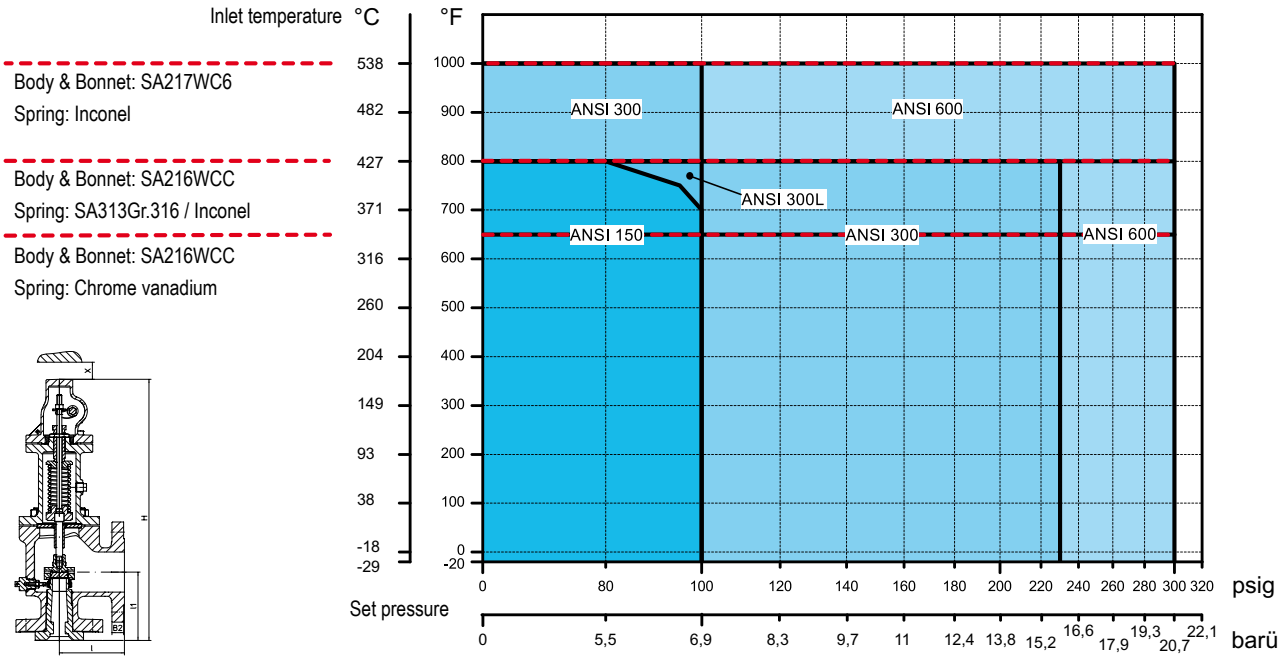
Specifications - Orifice Q (effective area acc. to API: 11,05 in²)

Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit									Dimensions				Weight
					Inlet flange							Outlet flange	Bellows seal					
	Body & Bonnet	Spring	Inlet	Outlet	-321°F bis -76°F	-75°F bis -21°F	-20°F bis 100°F	450 °F	550 °F	800 °F	1000 °F	100 °F	100 °F	l	l1	Max. H	Min. X	
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
6 Q 8	SA351CF8M	SA313Gr.316	150	150	165	165	165	165	153			115	70	9 1/2	9 7/16	45 1/2	20	480
6 Q 8	SA351CF8M	Inconel	150	150					153	80	20	115	70	9 1/2	9 7/16	45 1/2	20	480
6 Q 8	SA351CF8M	SA313Gr.316	300L	150	165	165	165	165	165			115	115	9 1/2	9 7/16	45 1/2	20	500
6 Q 8	SA351CF8M	Inconel	300L	150					165	165	165	115	115	9 1/2	9 7/16	45 1/2	20	500
6 Q 8	SA351CF8M	SA313Gr.316	300	150	250	300	300	300	300			115	115	9 1/2	9 7/16	45 1/2	20	520
6 Q 8	SA351CF8M	Inconel	300	150					300	300	300	115	115	9 1/2	9 7/16	45 1/2	20	520
6 Q 8	SA351CF8M	SA313Gr.316	600	150	300	600	600	600	600			115	115	9 1/2	9 7/16	49 1/2	20	630
6 Q 8	SA351CF8M	Inconel	600	150					600	600	600	115	115	9 1/2	9 7/16	49 1/2	20	630

Center to face dimensions acc. to API 526. Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/8-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice R (effective area acc. to API: 16,00 in²)

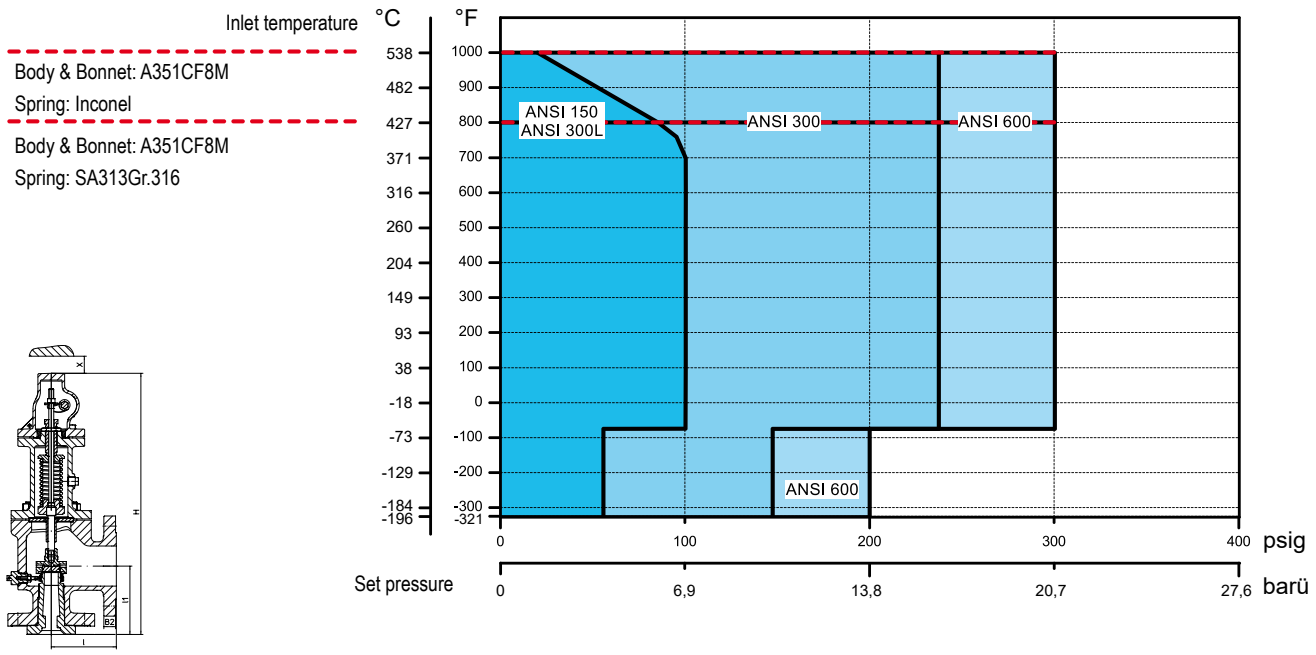
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit							Dimensions				Weight
					Inlet flange					Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	100°F	450°F	650°F	800°F	1000°F	100°F	100°F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
6 R 8	SA216WCC	Chr. vanad.	150	150	100	100	100			60	60	9 1/2	9 7/16	45 1/2	20	500
6 R 8	SA216WCC	SA313Gr.316	150	150		100	100	80		60	60	9 1/2	9 7/16	45 1/2	20	500
6 R 8	SA216WCC	Inconel	150	150		100	100	80		60	60	9 1/2	9 7/16	45 1/2	20	500
6 R 8	SA216WCC	Chr. vanad.	300L	150	100	100	100			60	60	9 1/2	9 7/16	45 1/2	20	520
6 R 8	SA216WCC	SA313Gr.316	300L	150		100	100	100		60	60	9 1/2	9 7/16	45 1/2	20	520
6 R 8	SA216WCC	Inconel	300L	150		100	100	100		60	60	9 1/2	9 7/16	45 1/2	20	520
6 R 10	SA216WCC	Chr. vanad.	300	150	230	230	230			100	100	10 1/2	9 7/16	45 1/2	20	620
6 R 10	SA216WCC	SA313Gr.316	300	150		230	230	230		100	100	10 1/2	9 7/16	45 1/2	20	620
6 R 10	SA216WCC	Inconel	300	150		230	230	230		100	100	10 1/2	9 7/16	45 1/2	20	620
6 R 10	SA217WC6	Inconel	300	150				100	100	100	100	9 1/2	9 7/16	45 1/2	20	620
6 R 10	SA216WCC	Chr. vanad.	600	150	300	300	300			100	100	10 1/2	9 7/16	49 1/2	20	660
6 R 10	SA216WCC	SA313Gr.316	600	150		300	300	300		100	100	10 1/2	9 7/16	49 1/2	20	660
6 R 10	SA216WCC	Inconel	600	150		300	300	300		100	100	10 1/2	9 7/16	49 1/2	20	660
6 R 10	SA217WC6	Inconel	600	150				300	300	100	100	10 1/2	9 7/16	49 1/2	20	660

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/8-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



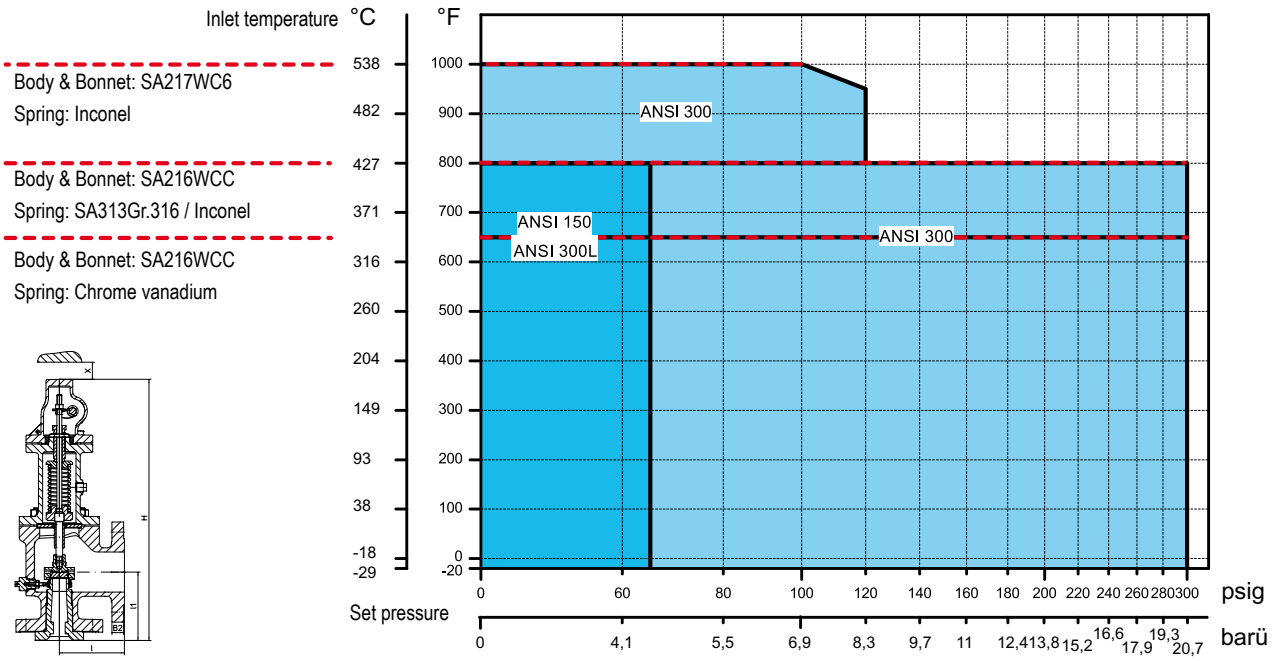
Specifications - Orifice R (effective area acc. to API: 16,00 in²)

Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit									Dimensions				Weight
					Inlet flange							Outlet flange	Bellows seal					
	Body & Bonnet	Spring	Inlet	Outlet	-321°F bis -76°F	-75°F bis -21°F	-20°F bis 100°F	450 °F	550 °F	800 °F	1000 °F	100 °F	100 °F	l	l1	Max. H	Min. X	
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
6 R 8	SA351CF8M	SA313Gr.316	150	150	55	100	100	100	100			60	60	9 1/2	9 7/16	45 1/2	20	500
6 R 8	SA351CF8M	Inconel	150	150					100	80	20	60	60	9 1/2	9 7/16	45 1/2	20	500
6 R 8	SA351CF8M	SA313Gr.316	300L	150	55	100	100	100	100			60	100	9 1/2	9 7/16	45 1/2	20	520
6 R 8	SA351CF8M	Inconel	300L	150					100	100	100	60	100	9 1/2	9 7/16	45 1/2	20	520
6 R 10	SA351CF8M	SA313Gr.316	300	150	150	230	230	230	230			100	100	10 1/2	9 7/16	45 1/2	20	620
6 R 10	SA351CF8M	Inconel	300	150					230	230	230	100	100	10 1/2	9 7/16	45 1/2	20	620
6 R 10	SA351CF8M	SA313Gr.316	600	150	200	300	300	300	300			100	100	10 1/2	9 7/16	49 1/2	20	660
6 R 10	SA351CF8M	Inconel	600	150					300	300	300	100	100	10 1/2	9 7/16	49 1/2	20	660

Center to face dimensions acc. to API 526. Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/8-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice T (effective area acc. to API: 26,00 in²)

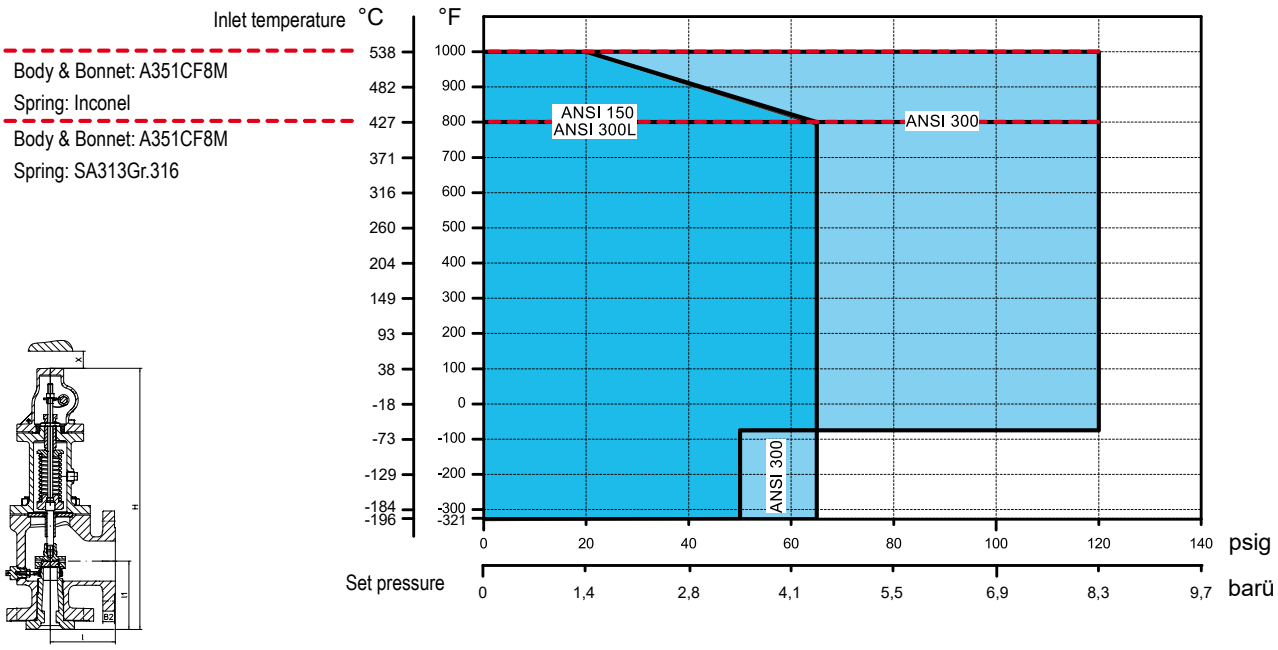
Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit							Dimensions				Weight
					Inlet flange					Outlet flange	Bellows seal	l	l1	Max. H	Min. X	
	Body & Bonnet	Spring	Inlet	Outlet	100°F	450°F	650°F	800°F	1000°F	100°F	100°F					
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
8 T 10	SA216WCC	Chr. vanad.	150	150	65	65	65			30	30	11	10 7/8	47 3/4	30	670
8 T 10	SA216WCC	SA313Gr.316	150	150		65	65	65		30	30	11	10 7/8	47 3/4	30	670
8 T 10	SA216WCC	Inconel	150	150		65	65	65		30	30	11	10 7/8	47 3/4	30	670
8 T 10	SA216WCC	Chr. vanad.	300L	150	65	65	65			30	30	11	10 7/8	47 3/4	30	700
8 T 10	SA216WCC	SA313Gr.316	300L	150		65	65	65		30	30	11	10 7/8	47 3/4	30	700
8 T 10	SA216WCC	Inconel	300L	150		65	65	65		30	30	11	10 7/8	47 3/4	30	700
8 T 10	SA216WCC	Chr. vanad.	300	150	300	300	300			60	60	11	10 7/8	54 3/4	30	830
8 T 10	SA216WCC	SA313Gr.316	300	150		300	300	300		60	60	11	10 7/8	54 3/4	30	830
8 T 10	SA216WCC	Inconel	300	150		300	300	300		60	60	11	10 7/8	54 3/4	30	830
8 T 10	SA217WC6	Inconel	300	150				120	100	60	60	11	10 7/8	51 1/2	30	830

Center to face dimensions acc. to API 526.

Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/8-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34



Specifications - Orifice T (effective area acc. to API: 26,00 in²)

Valve size	Material		Flangeconnection ANSI std. (RF or RTJ)		max. pressure rating limit									Dimensions				Weight
					Inlet flange							Outlet flange	Bellows seal					
	Body & Bonnet	Spring	Inlet	Outlet	-321°F bis -76°F	-75°F bis -21°F	-20°F bis 100°F	450 °F	550 °F	800 °F	1000 °F	100 °F	100 °F	l	l1	Max. H	Min. X	
inch			Class	Class	psig	psig	psig	psig	psig	psig	psig	psig	psig	inch	inch	inch	inch	lbs
8 T 10	SA351CF8M	SA313Gr.316	150	150	50	65	65	65	65			30	30	11	10 7/8	47 3/4	30	670
8 T 10	SA351CF8M	Inconel	150	150					65	65	20	30	30	11	10 7/8	47 3/4	30	670
8 T 10	SA351CF8M	SA313Gr.316	300L	150	50	65	65	65	65			30	60	11	10 7/8	47 3/4	30	700
8 T 10	SA351CF8M	Inconel	300L	150					65	65	65	30	60	11	10 7/8	47 3/4	30	700
8 T 10	SA351CF8M	SA313Gr.316	300	150	65	120	120	120	120			60	60	11	10 7/8	51 1/2	30	790
8 T 10	SA351CF8M	Inconel	300	150					120	120	120	60	60	11	10 7/8	51 1/2	30	790

Center to face dimensions acc. to API 526. Standard-flange dimensions refer to page 44.

Note

1. Valves set under 15 psig are not ASME code stamped.
2. Maximum l and l1 dimensions +/- 1/8-inch
3. Outlet pressure limit for temperatures above 100°F shall not exceed the rating in ANSI/ASME B16.34

Coeff. of discharge: 0,860		Orifice							
		D	E	F	G	H	J	K	L
Design area [A_0]		0,122 in²	0,217 in²	0,34 in²	0,558 in²	0,869 in²	1,427 in²	2,036 in²	3,16 in²
Design diameter [d_0]		0,394 in	0,526 in	0,658 in	0,843 in	1,052 in	1,348 in	1,61 in	2,006 in
Set pressure [psig]									
< 30 psig with + 3 psig overpressure	No Code Stamp or NB on Nameplates Below 15 psig								
	15	63	112	175	288	448	736	1050	1629
	20	73	129	202	332	516	848	1210	1878
	30	92	163	256	420	653	1073	1531	2376
40		113	201	315	516	804	1321	1884	2924
50		134	238	374	613	955	1568	2237	3472
60		155	276	433	710	1106	1815	2590	4020
70		176	314	492	807	1256	2063	2943	4568
80		198	351	550	903	1407	2310	3296	5116
90		219	389	609	1000	1558	2558	3649	5664
100		240	427	668	1097	1708	2805	4002	6212
110		261	464	727	1194	1859	3053	4356	6760
120		282	502	786	1290	2010	3300	4709	7308
130		303	539	845	1387	2160	3548	5062	7856
140		324	577	904	1484	2311	3795	5415	8404
150		346	615	963	1581	2462	4043	5768	8952
160		367	652	1022	1678	2612	4290	6121	9500
170		388	690	1081	1774	2763	4537	6474	10048
180		409	728	1140	1871	2914	4785	6827	10596
190		430	765	1199	1968	3065	5032	7180	11144
200		451	803	1258	2065	3215	5280	7533	11692
210		473	841	1317	2161	3366	5527	7886	12240
220		494	878	1376	2258	3517	5775	8239	12788
230		515	916	1435	2355	3667	6022	8592	13336
240		536	953	1494	2452	3818	6270	8945	13884
250		557	991	1553	2548	3969	6517	9298	14432
260		578	1029	1612	2645	4119	6765	9652	14980
270		599	1066	1671	2742	4270	7012	10005	15528
280		621	1104	1730	2839	4421	7260	10358	16076
290		642	1142	1789	2935	4572	7507	10711	16624
300		663	1179	1848	3032	4722	7754	11064	17172
320		705	1254	1966	3226	5024	8249	11770	18268
340		748	1330	2083	3419	5325	8744	12476	19364
360		790	1405	2201	3613	5626	9239	13182	20460
380		832	1480	2319	3806	5928	9734	13888	21556

[1] at 60°F and 14,7 psia

Coeff. of discharge: 0,860	Orifice							
	D	E	F	G	H	J	K	L
Design area [A_0]	0,122 in²	0,217 in²	0,34 in²	0,558 in²	0,869 in²	1,427 in²	2,036 in²	3,16 in²
Design diameter [d_0]	0,394 in	0,526 in	0,658 in	0,843 in	1,052 in	1,348 in	1,61 in	2,006 in
Set pressure [psig]								
400	875	1555	2437	4000	6229	10229	14594	22651
420	917	1631	2555	4193	6531	10724	15301	23747
440	959	1706	2673	4387	6832	11219	16007	24843
460	1001	1781	2791	4580	7133	11714	16713	25939
480	1044	1857	2909	4774	7435	12209	17419	27035
500	1086	1932	3027	4967	7736	12704	18125	28131
520	1128	2007	3145	5161	8037	13199	18831	29227
540	1171	2082	3263	5355	8339	13693	19537	30323
560	1213	2158	3381	5548	8640	14188	20243	31419
580	1255	2233	3498	5742	8942	14683	20950	32515
600	1298	2308	3616	5935	9243	15178	21656	33611
650	1403	2496	3911	6419	9997	16415	23421	36351
700	1509	2684	4206	6903	10750	17653	25186	39091
750	1615	2873	4501	7387	11503	18890	26952	41831
800	1721	3061	4796	7870	12257	20127	28717	44571
850	1827	3249	5090	8354	13010	21365	30482	47311
900	1932	3437	5385	8838	13764	22602	32248	50050
950	2038	3625	5680	9322	14517	23839	34013	52790
1000	2144	3813	5975	9806	15271	25076	35778	55530
1200	2567	4566	7154	11741	18285	30026	42840	66490
1400	2990	5319	8333	13676	21299	34975	49901	77449
1600	3413	6071	9512	15611	24312	39924	56962	
1800	3836	6824	10692	17547	27326	44873	64024	
2000	4260	7576	11871	19482	30340	49822	71085	
2200	4683	8329	13050	21417	33354	54771	78146	
2400	5106	9082	14229	23353	36368	59721		
2600	5529	9834	15408	25288	39382	64670		
2800	5952	10587	16588	27223				
3000	6375	11339	17767	29158				
3200	6798	12092	18946	31094				
3400	7221	12845	20125	33029				
3600	7644	13597	21304	34964				
3800	8068	14350	22484					
4000	8491	15102	23663					
5000	10606	18865	29559					
6000	12722	22628						

[1] at 60°F and 14,7 psia

Coeff. of discharge: 0,860		Orifice					
		M	N	P	Q	R	T
Design area [A_0]		3,987 in²	4,807 in²	7,07 in²	12,24 in²	17,72 in²	29,75 in²
Design diameter [d_0]		2,253 in	2,474 in	3,0 in	3,948 in	4,75 in	6,155 in
Set pressure [psig]							
< 30 psig with + 3 psig overpressure	No Code Stamp or NB on Nameplates Below 15 psig						
	15	2055	2478	3645	6310	9135	15336
	20	2370	2857	4202	7275	10531	17681
	30	2998	3615	5316	9204	13325	22371
40		3690	4448	6542	11327	16398	27530
50		4381	5282	7768	13449	19471	32689
60		5072	6116	8995	15572	22544	37848
70		5764	6949	10221	17694	25616	43007
80		6455	7783	11447	19817	28689	48166
90		7146	8616	12673	21939	31762	53325
100		7838	9450	13899	24062	34835	58484
110		8529	10283	15125	26185	37908	63643
120		9221	11117	16351	28307	40981	68802
130		9912	11951	17577	30430	44053	73961
140		10603	12784	18803	32552	47126	79120
150		11295	13618	20029	34675	50199	84279
160		11986	14451	21255	36797	53272	89438
170		12678	15285	22481	38920	56345	94597
180		13369	16119	23707	41042	59418	99756
190		14060	16952	24933	43165	62491	104915
200		14752	17786	26159	45288	65563	110074
210		15443	18619	27385	47410	68636	115233
220		16135	19453	28611	49533	71709	120392
230		16826	20286	29837	51655	74782	125551
240		17517	21120	31063	53778	77855	130710
250		18209	21954	32289	55900	80928	135869
260		18900	22787	33515	58023	84000	141028
270		19591	23621	34741	60145	87073	146187
280		20283	24454	35967	62268	90146	151346
290		20974	25288	37193	64391	93219	156505
300		21666	26122	38419	66513	96292	161664
320		23048	27789	40871	70758		
340		24431	29456	43323	75003		
360		25814	31123	45775	79248		
380		27197	32790	48227	83494		

[1] at 60°F and 14,7 psia

Coeff. of discharge: 0,860	Orifice					
	M	N	P	Q	R	T
Design area [A_0]	3,987 in²	4,807 in²	7,07 in²	12,24 in²	17,72 in²	29,75 in²
Design diameter [d_0]	2,253 in	2,474 in	3,0 in	3,948 in	4,75 in	6,155 in
Set pressure [psig]						
400	28580	34457	50679	87739		
420	29962	36125	53131	91984		
440	31345	37792	55583	96229		
460	32728	39459	58035	100474		
480	34111	41126	60487	104719		
500	35493	42793	62939	108964		
520	36876	44461	65391	113209		
540	38259	46128	67843	117454		
560	39642	47795	70295	121700		
580	41025	49462	72747	125945		
600	42407	51129	75199	130190		
620	43790	52796	77651			
640	45173	54464	80104			
660	46556	56131	82556			
680	47939	57798	85008			
700	49321	59465	87460			
720	50704	61132	89912			
740	52087	62799	92364			
760	53470	64467	94816			
780	54852	66134	97268			
800	56235	67801	99720			
820	57618	69468	102172			
840	59001	71135	104624			
860	60384	72803	107076			
880	61766	74470	109528			
900	63149	76137	111980			
920	64532	77804	114432			
940	65915	79471	116884			
960	67297	81138	119336			
980	68680	82806	121788			
1000	70063	84473	124240			
1050	73520					
1100	76977					

[1] at 60°F and 14,7 psia

Coeff. of discharge: 0,860		Orifice							
		D	E	F	G	H	J	K	L
Design area [A_0]		0,122 in²	0,217 in²	0,34 in²	0,558 in²	0,869 in²	1,427 in²	2,036 in²	3,16 in²
Design diameter [d_0]		0,394 in	0,526 in	0,658 in	0,843 in	1,052 in	1,348 in	1,61 in	2,006 in
Set pressure [psig]									
< 30 psig with + 3 psig overpressure	No Code Stamp or NB on Nameplates Below 15 psig								
	15	177	314	492	808	1259	2067	2949	4577
	20	204	362	568	932	1451	2383	3400	5276
	30	258	458	718	1179	1836	3015	4301	6676
40		317	564	884	1451	2259	3710	5293	8215
50		377	670	1050	1723	2683	4405	6285	9755
60		436	776	1215	1994	3106	5100	7277	11294
70		495	881	1381	2266	3529	5796	8269	12834
80		555	987	1547	2538	3953	6491	9261	14374
90		614	1093	1712	2810	4376	7186	10253	15913
100		674	1198	1878	3082	4799	7881	11245	17453
110		733	1304	2043	3354	5223	8576	12237	18992
120		793	1410	2209	3626	5646	9272	13229	20532
130		852	1516	2375	3897	6070	9967	14221	22071
140		912	1621	2540	4169	6493	10662	15212	23611
150		971	1727	2706	4441	6916	11357	16204	25150
160		1030	1833	2872	4713	7340	12053	17196	26690
170		1090	1939	3037	4985	7763	12748	18188	28229
180		1149	2044	3203	5257	8186	13443	19180	29769
190		1209	2150	3369	5528	8610	14138	20172	31308
200		1268	2256	3534	5800	9033	14833	21164	32848
210		1328	2361	3700	6072	9457	15529	22156	34387
220		1387	2467	3866	6344	9880	16224	23148	35927
230		1446	2573	4031	6616	10303	16919	24140	37466
240		1506	2679	4197	6888	10727	17614	25132	39006
250		1565	2784	4362	7160	11150	18310	26124	40545
260		1625	2890	4528	7431	11573	19005	27115	42085
270		1684	2996	4694	7703	11997	19700	28107	43624
280		1744	3101	4859	7975	12420	20395	29099	45164
290		1803	3207	5025	8247	12843	21090	30091	46703
300		1863	3313	5191	8519	13267	21786	31083	48243
320		1981	3524	5522	9063	14114	23176	33067	51322
340		2100	3736	5853	9606	14960	24567	35051	54401
360		2219	3947	6185	10150	15807	25957	37035	57480
380		2338	4159	6516	10694	16654	27347	39018	60559

Coeff. of discharge: 0,860	Orifice							
	D	E	F	G	H	J	K	L
Design area [A_0]	0,122 in²	0,217 in²	0,34 in²	0,558 in²	0,869 in²	1,427 in²	2,036 in²	3,16 in²
Design diameter [d_0]	0,394 in	0,526 in	0,658 in	0,843 in	1,052 in	1,348 in	1,61 in	2,006 in
Set pressure [psig]								
400	2457	4370	6847	11237	17500	28738	41002	63638
420	2576	4582	7178	11781	18347	30128	42986	66717
440	2695	4793	7510	12325	19194	31519	44970	69796
460	2814	5004	7841	12868	20041	32909	46954	72875
480	2932	5216	8172	13412	20887	34300	48938	75954
500	3051	5427	8504	13956	21734	35690	50922	79033
520	3170	5639	8835	14500	22581	37081	52905	82112
540	3289	5850	9166	15043	23428	38471	54889	85191
560	3408	6062	9497	15587	24274	39861	56873	88271
580	3527	6273	9829	16131	25121	41252	58857	91350
600	3646	6484	10160	16674	25968	42642	60841	94429
650	3943	7013	10988	18034	28085	46118	65800	102126
700	4240	7542	11816	19393	30202	49594	70760	109824
750	4537	8070	12645	20752	32318	53071	75719	117521
800	4834	8599	13473	22111	34435	56547	80679	125219
850	5132	9128	14301	23471	36552	60023	85639	132917
900	5429	9656	15129	24830	38669	63499	90598	140614
950	5726	10185	15958	26189	40786	66975	95558	148312
1000	6023	10713	16786	27548	42903	70451	100517	156009
1100	6618	11771	18442	30267	47136	77403	110437	171405
1200	7212	12828	20099	32986	51370	84355	120356	186800
1300	7806	13885	21755	35704	55604	91308	130275	202195
1400	8389	14921	23379	38369	59753	98122	139998	217285
1500	9038	16076	25188	41338	64378	105716	150833	234102
1600	9699	17252	27031	44363	69088	113451	161868	
1700	10374	18452	28911	47448	73893	121341	173126	
1800	11064	19679	30833	50603	78806	129408	184636	
1900	11770	20936	32803	53835	83840	137674	196430	
2000	12496	22227	34826	57156	89011	146167	208546	
2150	13628	24240	37980	62331	97071	159403	227431	
2300	14821	26363	41305	67789	105572	173361		
2450	16092	28623	44848	73603	114625	188228		
2600	17463	31061	48668	79872	124389	204261		
2750	18964	33732	52852	86739	135083			
2900	20642	36715	57526	94411				

Coeff. of discharge: 0,860		Orifice					
		M	N	P	Q	R	T
Design area [A_0]		3,987 in²	4,807 in²	7,07 in²	12,24 in²	17,72 in²	29,75 in²
Design diameter [d_0]		2,253 in	2,474 in	3,0 in	3,948 in	4,75 in	6,155 in
Set pressure [psig]							
< 30 psig with + 3 psig overpressure	No Code Stamp or NB on Nameplates Below 15 psig						
	15	5774	6962	10239	17727	25664	43086
	20	6657	8026	11805	20438	29588	49675
	30	8423	10155	14936	25859	37436	62851
40		10365	12497	18381	31822	46069	77345
50		12308	14839	21825	37785	54702	91839
60		14250	17181	25270	43748	63335	106333
70		16193	19523	28714	49711	71968	120826
80		18135	21865	32158	55675	80601	135320
90		20078	24207	35603	61638	89234	149814
100		22020	26549	39047	67601	97867	164308
110		23962	28891	42492	73564	106500	178802
120		25905	31233	45936	79527	115133	193296
130		27847	33575	49381	85491	123766	207790
140		29790	35917	52825	91454	132399	222284
150		31732	38258	56270	97417	141032	236778
160		33675	40600	59714	103380	149665	251272
170		35617	42942	63158	109344	158298	265765
180		37559	45284	66603	115307	166931	280259
190		39502	47626	70047	121270	175564	294753
200		41444	49968	73492	127233	184197	309247
210		43387	52310	76936	133196	192830	323741
220		45329	54652	80381	139160	201463	338235
230		47272	56994	83825	145123	210096	352729
240		49214	59336	87269	151086	218729	367223
250		51156	61678	90714	157049	227362	381717
260		53099	64020	94158	163012	235995	396211
270		55041	66362	97603	168976	244628	410704
280		56984	68703	101047	174939	253261	425198
290		58926	71045	104492	180902	261894	439692
300		60869	73387	107936	186865	270527	454186
320		64753	78071	114825	198792		
340		68638	82755	121714	210718		
360		72523	87439	128603	222644		
380		76408	92123	135491	234571		

Coeff. of discharge: 0,860	Orifice					
	M	N	P	Q	R	T
Design area [A_0]	3,987 in²	4,807 in²	7,07 in²	12,24 in²	17,72 in²	29,75 in²
Design diameter [d_0]	2,253 in	2,474 in	3,0 in	3,948 in	4,75 in	6,155 in
Set pressure [psig]						
500	99717	120226	176825	306129		
520	103602	124910	183714	318056		
540	107487	129593	190602	329982		
560	111372	134277	197491	341909		
580	115257	138961	204380	353835		
600	119141	143645	211269	365761		
620	123026	148329	218158			
640	126911	153013	225047			
660	130796	157697	231936			
680	134681	162380	238824			
700	138566	167064	245713			
720	142450	171748	252602			
740	146335	176432	259491			
760	150220	181116	266380			
780	154105	185800	273269			
800	157990	190483	280158			
820	161875	195167	287047			
840	165760	199851	293935			
860	169644	204535	300824			
880	173529	209219	307713			
900	177414	213903	314602			
920	181299	218587	321491			
940	185184	223270	328380			
960	189069	227954	335269			
980	192954	232638	342157			
1000	196838	237322	349046			
1050	206551					
1100	216263					

Coeff. of discharge: 0,724		Orifice							
		D	E	F	G	H	J	K	L
Design area [A_0]		0,122 in²	0,217 in²	0,34 in²	0,558 in²	0,869 in²	1,427 in²	2,036 in²	3,16 in²
Design diameter [d_0]		0,394 in	0,526 in	0,658 in	0,843 in	1,052 in	1,348 in	1,61 in	2,006 in
Set pressure [psig]									
< 30 psig with + 3 psig overpressure	No Code Stamp or NB on Nameplates Below 15 psig								
	15	14	25	40	65	101	167	238	369
	20	16	29	45	74	115	188	269	417
	30	19	34	54	88	137	226	322	499
40		22	40	62	102	159	260	372	577
50		25	44	69	114	177	291	415	645
60		27	48	76	125	194	319	455	706
70		29	52	82	135	210	344	492	763
80		31	56	88	144	224	368	525	816
90		33	59	93	153	238	391	557	865
100		35	63	98	161	251	412	587	912
110		37	66	103	169	263	432	616	956
120		39	69	107	176	275	451	644	999
130		40	71	112	184	286	469	670	1040
140		42	74	116	191	297	487	695	1079
150		43	77	120	197	307	504	719	1117
160		45	79	124	204	317	521	743	1153
170		46	82	128	210	327	537	766	1189
180		47	84	132	216	336	552	788	1223
190		49	86	135	222	346	568	810	1257
200		50	89	139	228	355	582	831	1289
210		51	91	142	233	363	597	851	1321
220		52	93	146	239	372	611	871	1352
230		53	95	149	244	380	624	891	1383
240		55	97	152	249	388	638	910	1413
250		56	99	155	255	396	651	929	1442
260		57	101	158	260	404	664	947	1470
270		58	103	161	265	412	677	965	1498
280		59	105	164	269	420	689	983	1526
290		60	107	167	274	427	701	1000	1553
300		61	108	170	279	434	713	1018	1579
320		63	112	175	288	449	737	1051	1631
340		65	115	181	297	462	759	1083	1681
360		67	119	186	305	476	781	1115	1730
380		69	122	191	314	489	803	1145	1777

Coeff. of discharge: 0,724	Orifice							
	D	E	F	G	H	J	K	L
Design area [A_0]	0,122 in²	0,217 in²	0,34 in²	0,558 in²	0,869 in²	1,427 in²	2,036 in²	3,16 in²
Design diameter [d_0]	0,394 in	0,526 in	0,658 in	0,843 in	1,052 in	1,348 in	1,61 in	2,006 in
Set pressure [psig]								
400	70	125	196	322	501	823	1175	1824
420	72	128	201	330	514	844	1204	1869
440	74	131	206	338	526	864	1232	1913
460	75	134	210	345	538	883	1260	1956
480	77	137	215	353	549	902	1287	1998
500	79	140	219	360	561	921	1314	2039
520	80	143	224	367	572	939	1340	2079
540	82	145	228	374	583	957	1365	2119
560	83	148	232	381	593	974	1390	2158
580	85	151	236	388	604	992	1415	2196
600	86	153	240	394	614	1009	1439	2233
650	90	160	250	410	639	1050	1498	2325
700	93	166	259	426	663	1089	1553	2411
750	96	171	269	441	687	1128	1609	2497
800	100	177	277	455	709	1165	1662	2579
850	103	183	286	469	731	1200	1713	2658
900	106	188	294	483	752	1235	1762	2735
950	108	193	302	496	773	1269	1811	2810
1000	111	198	310	509	793	1302	1858	2883
1200	122	217	340	558	869	1426	2035	3159
1400	132	234	367	602	938	1541	2198	3412
1600	141	250	392	644	1003	1647	2350	
1800	149	266	416	683	1064	1747	2492	
2000	157	280	439	720	1121	1841	2627	
2200	165	294	460	755	1176	1931	2755	
2400	172	307	481	789	1228	2017		
2600	179	319	500	821	1279	2100		
2800	186	331	519	852				
3000	193	343	537	882				
3200	199	354	555	911				
3400	205	365	572	939				
3600	211	376	589	966				
3800	217	386	605					
4000	223	396	620					
5000	249	443	694					
6000	273	485						

Coeff. of discharge: 0,724		Orifice					
		M	N	P	Q	R	T
Design area [A_0]		3,987 in²	4,807 in²	7,07 in²	12,24 in²	17,72 in²	29,75 in²
Design diameter [d_0]		2,253 in	2,474 in	3,0 in	3,948 in	4,75 in	6,155 in
Set pressure [psig]							
< 30 psig with + 3 psig overpressure	No Code Stamp or NB on Nameplates Below 15 psig						
	15	465	561	825	1429	2068	3472
	20	526	634	933	1615	2338	3925
	30	630	760	1117	1934	2800	4702
40		728	877	1290	2234	3234	5429
50		813	981	1442	2497	3615	6070
60		891	1074	1580	2736	3960	6649
70		962	1160	1707	2955	4278	7182
80		1029	1241	1825	3159	4573	7678
90		1091	1316	1935	3350	4851	8144
100		1150	1387	2040	3532	5113	8584
110		1207	1455	2140	3704	5362	9003
120		1260	1519	2235	3869	5601	9403
130		1312	1581	2326	4027	5830	9787
140		1361	1641	2414	4179	6050	10157
150		1409	1699	2498	4325	6262	10513
160		1455	1754	2580	4467	6467	10858
170		1500	1808	2660	4605	6666	11192
180		1543	1861	2737	4738	6860	11517
190		1586	1912	2812	4868	7048	11832
200		1627	1962	2885	4995	7231	12140
210		1667	2010	2956	5118	7409	12439
220		1706	2057	3026	5238	7584	12732
230		1745	2104	3094	5356	7754	13018
240		1782	2149	3160	5471	7921	13298
250		1819	2193	3225	5584	8084	13573
260		1855	2236	3289	5695	8244	13841
270		1890	2279	3352	5803	8401	14105
280		1925	2321	3414	5910	8556	14364
290		1959	2362	3474	6014	8707	14618
300		1993	2402	3533	6117	8856	14868
320		2058	2481	3649	6318		
340		2121	2558	3762	6512		
360		2183	2632	3871	6701		
380		2243	2704	3977	6885		

Coeff. of discharge: 0,724	Orifice					
	M	N	P	Q	R	T
Design area [A_0]	3,987 in²	4,807 in²	7,07 in²	12,24 in²	17,72 in²	29,75 in²
Design diameter [d_0]	2,253 in	2,474 in	3,0 in	3,948 in	4,75 in	6,155 in
Set pressure [psig]						
400	2301	2774	4080	7063		
420	2358	2843	4181	7238		
440	2413	2909	4279	7408		
460	2467	2975	4375	7575		
480	2520	3039	4469	7738		
500	2572	3101	4562	7897		
520	2623	3163	4652	8054		
540	2673	3223	4740	8207		
560	2722	3282	4827	8358		
580	2771	3340	4913	8506		
600	2818	3397	4997	8651		
620	2864	3454	5079			
640	2910	3509	5161			
660	2955	3563	5241			
680	3000	3617	5320			
700	3044	3670	5397			
720	3087	3722	5474			
740	3129	3773	5549			
760	3171	3824	5624			
780	3213	3874	5697			
800	3254	3923	5770			
820	3294	3972	5842			
840	3334	4020	5912			
860	3374	4068	5982			
880	3413	4115	6052			
900	3451	4161	6120			
920	3489	4207	6188			
940	3527	4252	6254			
960	3564	4297	6321			
980	3601	4342	6386			
1000	3638	4386	6451			
1050	3728					
1100	3815					

Nominal diameter			1" x 2"	1,5" x 2"	1,5" x 3"	2" x 3"	3" x 4"	3" x 6"	4" x 6"	6" x 8"	6" x 10"	8" x 10"
Standard-flange dimensions												
ØD1	ANSI150	(inch)	4,25	5	5	6	7,5	7,5	9	11	11	13,5
	ANSI300	(inch)	4,88	6,12	6,12	6,5	8,25	8,25	10	12,5	12,5	15
	ANSI600	(inch)	4,88	6,12	6,12	6,5	8,25	8,25	10,75	14	14	16,5
	ANSI900	(inch)	5,88	7	7	8,5	9,5	9,5	11,5	15	15	18,5
	ANSI1500	(inch)	5,88	7	7	8,5	10,5	10,5	12,25	15,5	15,5	19
	ANSI2500	(inch)	6,25	8	8	9,25	12	12	14	19	19	21,75
ØD2	ANSI150	(inch)	6	6	7,5	7,5	9	11	11	13,5	16	16
	ANSI300	(inch)	6,5	6,5	8,25	8,25	10	12,5	12,5	15	17,5	17,5
b1			depending on the Orifice (table see below)									
b2	ANSI150	(inch)	0,75	0,75	0,88	0,88	0,88	0,94	0,94	1,06	1,12	1,12
	ANSI300	(inch)	0,88	0,88	1,12	1,12	1,25	1,44	1,44	1,62	1,88	1,88

Orifice			D	E	F	G	H	J	K	L	M	N	P	Q	R	T
b1	ANSI150 x ANSI150	(inch)	1,2	1,2	1,3	1,3	1,3	1,3	1,4	1,4	1,6	1,6	1,6	1,8	1,8	1,9
	ANSI300L x ANSI150	(inch)	0,8	1,4	1,5	1,5	1,5	1,6	1,8	1,8	1,9	1,9	1,9	2,3	2,3	2,4
	ANSI300 x ANSI150	(inch)	0,8	1,4	1,5	1,6	1,6	1,9	1,8	2,0	1,9	1,9	1,9	2,3	2,3	2,4
	ANSI600 x ANSI150	(inch)	0,8	1,4	1,5	1,6	1,7	1,9	1,9	2,3	2,3	2,2	2,2	2,7	2,7	2,4
	ANSI900 x ANSI300	(inch)	1,9	1,9	1,9	1,9	--	--	--	--	--	--	--	--	--	--
	ANSI900 x ANSI150	(inch)	--	--	--	--	2,2	2,2	2,2	2,4	2,4	2,4	2,4	--	--	--
	ANSI1500 x ANSI300	(inch)	1,9	1,9	1,9	2,3	2,6	2,6	2,6	2,8	--	--	--	--	--	--
	ANSI2500 x ANSI300	(inch)	--	--	--	2,8	--	--	--	--	--	--	--	--	--	--

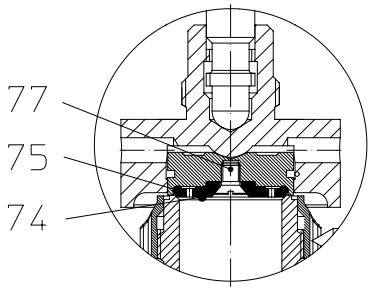
Flanges acc. to ASME / ANSI B16.5

Nominal diameter			1"	1 1/2"	2"	3"	4"	6"	8"	10"
Standard-Flangeholes										
ØK	ANSI150	(inch)	3,12	3,88	4,75	6	7,5	9,5	11,75	14,25
n x Ød		(inch)	4 x 5/8	4 x 5/8	4 x 3/4	4 x 3/4	8 x 3/4	8 x 7/8	8 x 7/8	12 x 1
ØK	ANSI300	(inch)	3,5	4,5	5	6,62	7,88	10,62	13	15,25
n x Ød		(inch)	4 x 3/4	4 x 7/8	8 x 3/4	8 x 7/8	8 x 7/8	12 x 7/8	12 x 1	16 x 1 1/8
ØK	ANSI600	(inch)	3,5	4,5	5	6,62	8,5	11,5	13,75	17
n x Ød		(inch)	4 x 3/4	4 x 7/8	8 x 3/4	8 x 7/8	8 x 1	12 x 1 1/8	12 x 1 1/4	16 x 1 3/8
ØK	ANSI900	(inch)	4	4,88	6,5	7,5	9,25	12,5	15,5	18,5
n x Ød		(inch)	4 x 1	4 x 1 1/8	8 x 1	8 x 1	8 x 1 1/4	12 x 1 1/4	12 x 1 1/2	16 x 1 1/2
ØK	ANSI1500	(inch)	4	4,88	6,5	8	9,5	12,5	15,5	19
n x Ød		(inch)	4 x 1	4 x 1 1/8	8 x 1	8 x 1 1/4	8 x 1 3/8	12 x 1 1/2	12 x 1 3/4	12 x 2
ØK	ANSI2500	(inch)	4,25	5,75	6,75	9	10,75	14,5	17,25	21,25
n x Ød		(inch)	4 x 1	4 x 1 1/4	8 x 1 1/8	8 x 1 3/8	8 x 1 5/8	8 x 2 1/8	12 x 2 1/8	12 x 2 5/8

	ARI-REYCO® R Series
	Fig. 971-974
ASME Code Section VIII-Division 1 (UV-stamp, NB-stamp) USA)	X
Canada Registration - CRN (only version with UV-stamp)	X
Pressure equipment directive PED 2014/68/EU Module B+D, H1	X
Seat tightness API 527	X

Soft sealing disc: WEDI

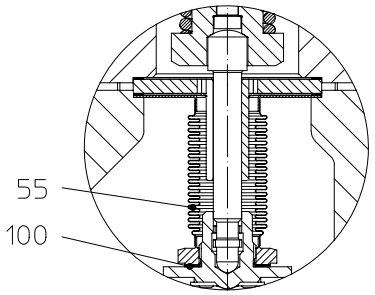
Aflas	-20 °F to +500 °F
BUNA-N	-65 °F to +275 °F
Chemraz	-20 °F to +450 °F
EPR	-65 °F to +325 °F
Fluoraz	-20 °F to +500 °F
Kalrez®	-20 °F to +550 °F
Silicone	-150 °F to +450 °F
Viton®	-65 °F to +400 °F



Parts

Pos.	Description	
74	Retaining plate	SA479Gr.316L
75	O-ring	refer to material list above
77	Retaining screw	SA479Gr.304

Soft sealing disc WEDI

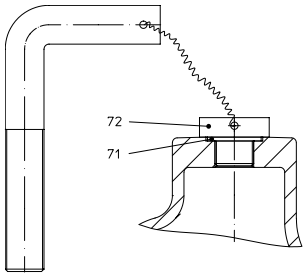


Parts

Pos.	Description	
55	Bellows	Stainless steel / Inconel assembly
100	Gasket	Klingersil C-4400

Bellow design (Stainless steel)

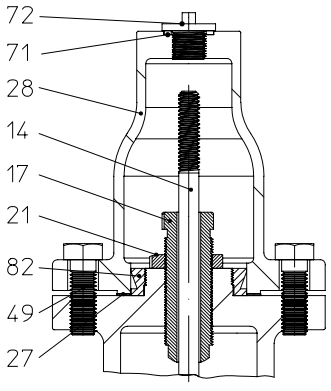
Attention: not applicable below 15 psig!



Parts

Pos.	Description	
71	Gasket (gag screw)	Stainless steel
72	Gag screw	SA479Gr.316L

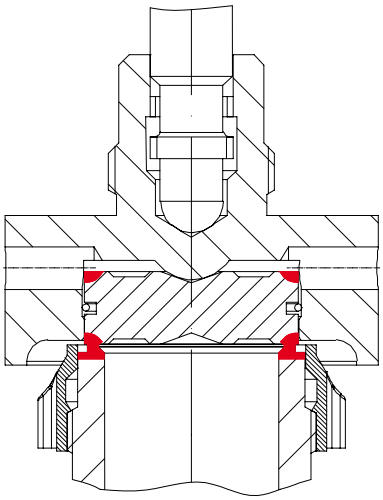
Design for test gag (Stainless steel)



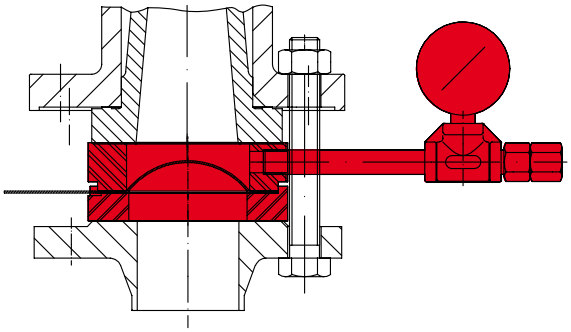
Parts

Pos.	Description	
14	Stem	SA479Gr.316L
17	Compression screw	SA479Gr.316L
21	Lock nut	SA479Gr.316L
27	Gasket (cap)	Stainless steel
28	Cap	SA216WCC
49	Bolt	SA193-B7
71	Gasket (gag screw)	Stainless steel
72	Gag screw	SA479Gr.316L
82	Adapter	SA108Gr.1018

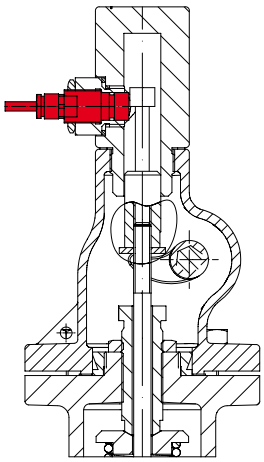
Bolted cap



Seat SA479Gr.316Ti / Stellit No. 21
Disc SA479Gr.316Ti / Stellit No. 6



Rupture disc



Proximity switch

General Terms and Conditions of Sale and Delivery

1. General
The following terms and conditions are part of any agreement for supply.

Any deviations from these conditions will be effective only if we have granted our prior written consent.

Conflicting or interfering purchase terms and conditions of the Purchaser shall be invalid even if we do not explicitly contradict to the conflicts or interference.

The unconditional acceptance of the goods does not invalidate the exclusive validity of these terms and conditions.

Should any individual provision be void, illegal or unenforceable, the validity of the remaining provisions hereof shall in no way be affected.

2. Quotations / Orders
Our quotations are subject to confirmation regarding price, quantity, delivery deadline and availability for delivery.

Orders as well as verbal agreements shall become binding for us only by our written confirmation.

Catalogue pictures and illustrations in quotations are not binding in as far as a modification of design, measurements and weights is subject to change without notice.

3. Price and Payment
The prices shall be effective ex factory Hamburg, without packaging material, unless agreed on otherwise.

Payments must be made by money transfer. The terms of payments listed in the order acknowledgement or invoice resp. shall be in effect.

In case of delayed payments, we are entitled to charge interest of delay.

4. Delivery Period
The delivery period results from the agreements reached by the parties of the contract.

Meeting the deadline by the supplier requires that all commercial and technical matters have been settled first and the buying customer has met all his obligations. Failing that, the delivery time will be prolonged appropriately.

Meeting the deadline of the delivery period is warranted under the reservation of our being supplied correctly and in time.

Claims cannot be made against us in case we fail to meet a delivery deadline.

5. Passage of Risk
The risks will pass on to the Purchaser at the latest with the dispatch or collection of the goods to be delivered, even a case of partial deliveries.

We will conclude a transportation insurance policy only if the Purchaser has given explicit written order to do so.

Partial deliveries are permissible.

6. Retention of Title to Ownership
The right of ownership in the item supplied will remain with the Supplier pending receipt of all payments resulting from the delivery contract.

The Purchaser assigns already now the claims resulting from this transaction to the Seller if the item supplied is resold prior to our receipt of payment (extended retention of title to ownership).

Behavior contrary to the contract, especially in case of default of payment, entitles us to take back the items supplied, after having sent a reminder, and the Purchaser is obliged to surrender the items.

The assertion of the retention of title to ownership as well as the attachment of the items supplied by us shall not mean the rescission of contract by us.

Filing insolvency application on the part of the Purchaser entitles us to withdraw from the contract and request the immediate return of the items supplied.

7. Warranty
Starting with the date of delivery, the statutory warranty period is applicaple for our products.

Wearing parts are excluded from this provision.

The products are subject to a density test as well as a final test after their assembly and pressure adjustment. All tests are performed pursuant to standard by means of air or water resp., on examined and calibrated test stations / test devices.

Test documents of the individual acceptance tests / material tests will be kept in the archives for a minimum period of ten years.

8. Liability
Notices of obvious defects must be given in writing immediately after their detection, at the latest, however, within eight (8) days after receipt of the item supplied.

Other defects subject to liabilty must be reported immediately after detection in writing.

If we decline to accept a claim for a warranty, the claim made by the Purchaser is regarded as waived unless contradicted within one month in writing.

Accepted defects will be repaired without charge in our Hamburg works or replaced by new items without charge. The parts subject to complaint have to be returned to us without charge.

We will bear the direct costs of repair or of the replacement parts; in case the complaint is justified, we will bear the costs of the replacement part.

Delivery of new goods is effected on principle subject to thorough examination of the defect and its result with reference to the part complained about. The Purchaser has to reimburse the costs of examination if the claim proves to be unjustified.

We are not liable for consequential damage as a result of slight negligence unless a warranted property has not been supplied.

In addition, no warranty is accepted in the following cases: unsuited or improper use, wrong assembly or putting into operation by the Purchaser or a third party, normal wear, incorrect or negligent treatment, improper maintenance or unsuitable operating equipment.

We are not liable for consequences of unprofessional repairs by the Purchaser or a third party. The same applies to modifications of the items supplied without our prior consent.

Assembly instructions are aimed at the know-how of qualified personnel. Only skilled personnel should, consequently, perform the assembly work.

9. Returns
Goods supplied are allowed to be returned only after our prior written consent. Return shipping must be made by prepaid freight.

In case of contract cancellation or returns of the goods for reasons the Purchaser is liable for, the Purchaser will be charged with the necessary costs incurred relating to the return as well as the dismantling performed.

Custom-made items as well as spare parts can, on principle, not be taken back.

10. Statutory Limitation
All claims of the Purchaser, for whatever legal reasons, are limited to 12 months.

11. Documentation
Any documentation included in the supply is not allowed to be altered. Manufacturer marking on products is not allowed to be removed. Further use by a third party is only permitted with our expressed consent.

12. Place of Jurisdiction
Place of performance for delivery and payment and place of jurisdiction for both contract parties is Hamburg.

Headquarters and missions abroad

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Germany	**Niezgodka GmbH** Bargkoppelweg 73 DE - 22145 Hamburg	+49 40 679 469-0 ni@niezgodka.de www.niezgodka.de

Country	Representatives	Phone / E-Mail / Website
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United Kingdom, Ireland, Indonesia, Malaysia, Singapore	**Flowstar (U.K) Ltd.** Unit 1 / Gillet Street Kingston-upon-Hull GB - HU3 4JA	+44 1482 210484 sales@flowstar.co.uk www.flowstar.co.uk
Lithuania	**Lukrida UAB** Kovo 11 - osios g. 126 LT - 49380 Kaunas	+370 37 302 800 info@lukrida.lt www.lukrida.lt
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