

Type GTC

Gate Valve
Cast Steel, Pressure seal Bonnet
Butt weld ends

2" - 24" (50-600 mm)
Class 900, 1500, 2500

Design in accordance with ASME B16.34

Applications

- Power stations, general industry, process engineering
- For water, steam, gas, oil & other non-aggressive media
- Further applications on request

Operating Data

- Pressure up to 431 bar (6250 psi)
- Temperature up to +650°C / 1200°F
- Minimum temperature is 0°C (less than 0°C on request)
- Pressure-temperature ratings as per ASME B 16.34, Standard class

Materials

- ASTM A 216 WCB from 0°C to 425°C
- ASTM A 217 WC6/WC9 from 0°C to 593°C
- ASTM A 217 C12A from 0°C to 650°C

Design

- As per ASME B 16.34
- Pressure Seal Bonnet Design
- Stellite hard-faced Seats & Disc surface
- Graphite gaskets & packings with Braided wiping rings
- Internal pressure relieving on disc
- Direct retrofitting of Actuator
- Reduced bore
- Double disc wedge design
- The Valves meet the safety requirement of the Pressure Equipment Directive 97/23/EC(PED) of annex I for fluids of the groups 1 and 2.

Variants on Request

- Bypass Arrangement
- Gear / Electrical Actuator
- Other pressure relief arrangements
- Full bore execution
- Position indicator
- Locking Arrangement
- Stem Protector
- Special class execution
- Other Material of construction

Remarks :

(Type Series Booklet References)

SICCA 800-2500 GTF / GLF / PCF	: 7240.1/01-14
SICCA 900-2500 GLC	: 7242.2/01-14
SICCA 900-2500 SCC	: 7243.2/01-14
SICCA 150-600 GTC	: 7244.2/01-14
SICCA 150-600 GLC	: 7245.2/01-14
SICCA 150-600 SCC	: 7246.2/01-14
Operating instructions no	: 0500.80/06-18 G3

On all enquiries / orders please specify :

1. Type
2. ASME Pressure class
3. Size
4. Design pressure/temperature
5. Operating pressure
6. Operating temperature
7. Differential pressure
8. Material of construction
9. Flow medium
10. Flow rate Min./Max.
11. Type of end connection
12. Pipe Schedule Inlet/ Outlet Dia
13. Variants
14. Type Series Booklet no.
15. Valve data sheet (if applicable)

When ordering spares, Indicate Serial number of Valve.

Product features to our customer benefit

Labels in diagram: Stop Nut for Stroke Limitation, Stem Nut with thrust bearing enables Retrofitting of Actuators at Site, Burnished Stem. 13% Cr. (Hardened), Two piece Self-Aligning Gland arrangement, Graphite Packing rings. Top & Bottom Ring-Braided, Spacer Ring - Prevent damage to Gasket, Seat ring - ST6(HF), Seal Welded to Body, Body, Seal weld, Pr. relief hole, Double Disc Gate arrangement, Bonnet, Graphite Gasket, Segmental Rings / Thrust Ring.

Flow →

- Valves meets ASME B 16.34 requirements
- Unique Seat design ensures low operating torque
- Compact Yoke design ensures low valve weight
- Stop nut prevents over tightening of double disc gate
- Designed to retrofit valve with Actuator at site without disassembly of pressure retaining parts

Flow Seal

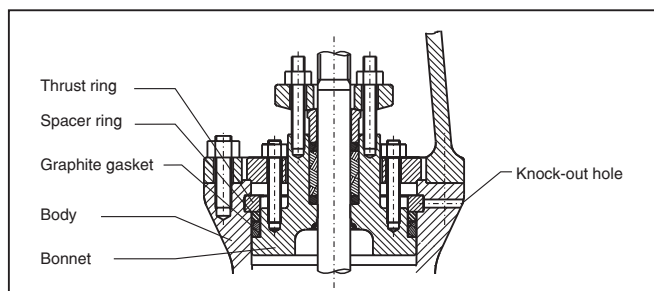
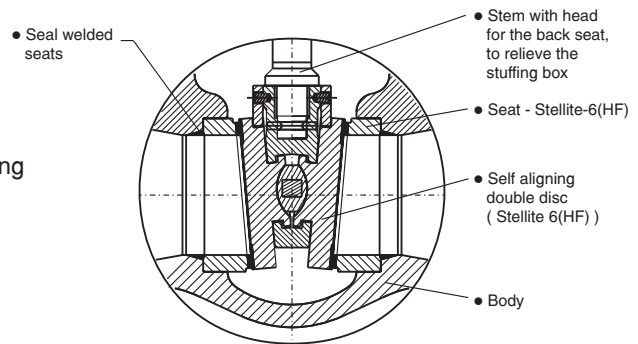
- Fully stellited Body & Disc seats
- Seat rings - seal welded to body
- Lapped Seat & Disc faces for leak tightness
- Streamlined flow path ensures minimum pressure drop

Disc Design

- Self aligning double disc arrangement ensures perfect seating
- Wedging action ensures leak tightness
- Leak tightness at low & high differential pressure
- Extended disc wear life by possibility of shim addition

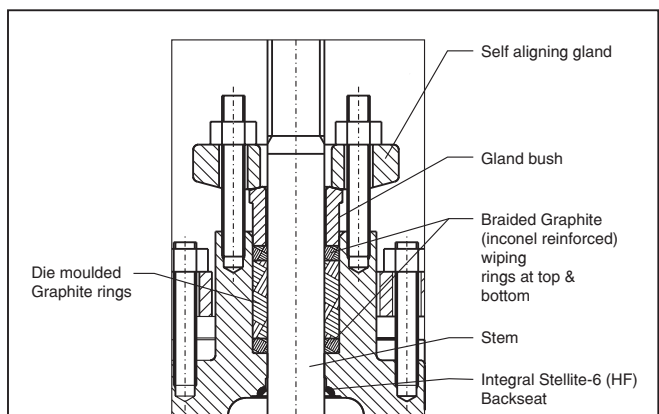
Stem Wedge Connection

- Strong stem-disc joint capable of withstanding higher operating forces



Pressure Seal Bonnet

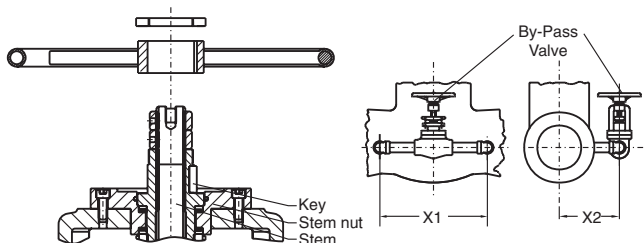
- Die moulded graphite gasket
- Segmental ring arrangement with knock out hole ensures easy disassembly



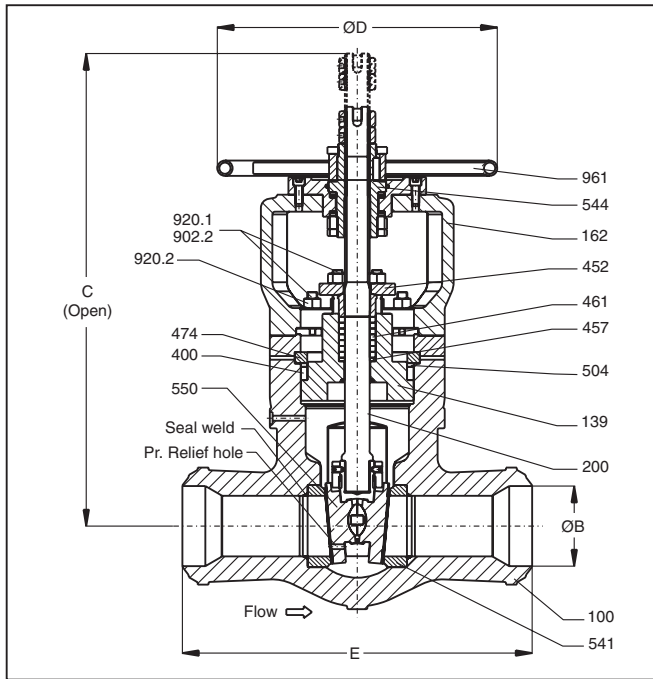
Gland Seal

- Die moulded graphite rings ensures effective sealing to atmosphere
- Top & bottom rings are braided graphite and inconel reinforced
- Braided rings offer smooth wiping action thereby arresting graphite depletion
- Smooth finished & polished stem and smooth stuffing box surfaces improve gland sealing life
- Two piece self aligning gland arrangement
- Integral hard faced back seat for maximum service life

Retrofitting of Actuator & By-pass Execution



Mount Actuator with non-thrust base. Type 'E' or 'B' after removing handwheel.



Design Specifications

General valve design & pressure, temperature rating : ASME B 16.34
 Butt weld end design : ASME B 16.25
 End to end dimension : ASME B 16.10
 Testing : API 598

Dimensions in mm

Class 900 RB

Size (Inch)	2"	3x2x3	4x3x4	6x4x6	8x6x8	10x8x10	12x10x12
E	216	216	305	356	508	660	787
ØB*	49.5	73.5	92	139.5	182.5	230	273
C (max)	537	537	625	713	862	1017	1266
ØD	254	254	356	457	508	610	610

* Schedule 80 up to 3". Schedule 120 for 4" and above. Alternate schedule on request.

Class 1500 RB

Size (Inch)	3x2x3	4x3x4	6x4x6	8x6x8	10x8x10	12x10x12	14x12x14	16x14x16	18x16x18	20x18x20	24x20x24
E	216	305	406	559	711	864	991	1067	1194	1346	1473
ØB*	66.5	87.5	131.5	173	216	257	284	325.5	366.5	408	490.5
C (max)	537	625	708	860	1033	1269	1470	1601	1778	1977	2148
ØD	254	356	457	610	610	610	**	**	**	**	**

* Schedule 160. Alternate schedule on request.

Class 1500 FB

Size (Inch)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
E	216	305	406	559	711	864	991	1067	1194	1346	1473
ØB*	43	66.5	87.5	131.5	173	216	257	284	325.5	366.5	408
C (max)	537	625	708	946	1033	1269	1470	1601	1778	1977	2148
ØD	254	356	457	610	610	610	**	**	**	**	**

* Schedule 160. Alternate schedule on request. ** Mandatory Gear Box.

Class 2500 RB

Size (Inch)	3x2x3	4x3x4	6x4x6	8x6x8	10x8x10	12x10x12	14x12x14	16x14x16	18x16x18	20x18x20	24x20x24
E	279	368	457	610	762	914	1041	1118	1245	1397	1575
ØB*	58.5	80	124.5	174.5	216	257	284	325.5	366.5	408	490.5
C (max)	531	634	682	911	1071	1209	1386	1574	1728	1912	2114
ØD	254	457	457	610	610	**	**	**	**	**	**

* Schedule XXS up to 6". Schedule 160 for 8" and above. Alternate schedule on request.

** Mandatory Gear Box.

Class 2500 FB

Size (Inch)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
E	279	368	457	610	762	914	1041	1118	1245	1397	1575
ØB*	38	58.5	80	124.5	174.5	216	257	284	325.5	366.5	408
C (max)	531	634	682	922	1072	1209	1386	1574	1728	1912	2114
ØD	254	457	457	610	610	**	**	**	**	**	**

* Schedule XXS up to 6". Schedule 160 for 8" and above. Alternate schedule on request.

** Mandatory Gear Box.

Materials

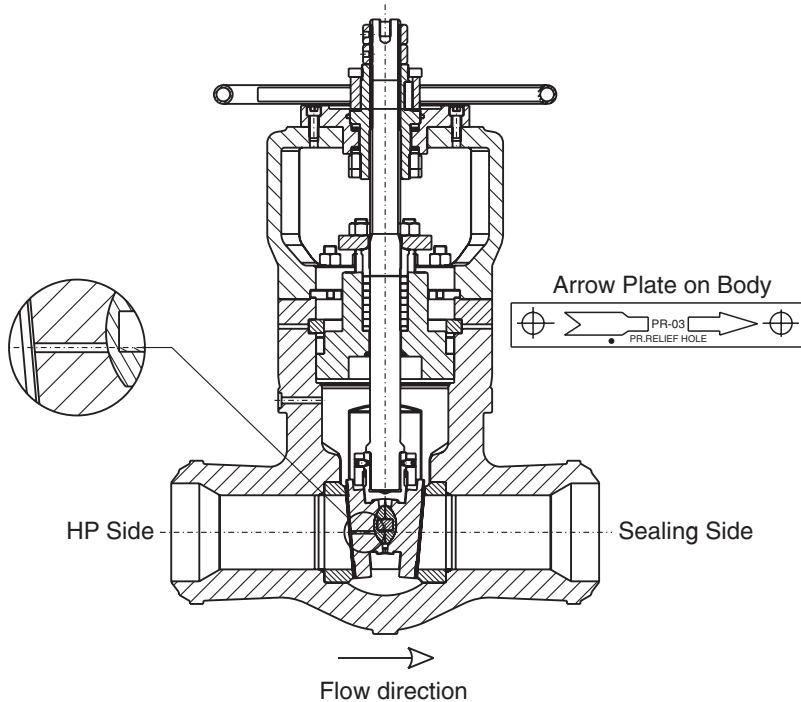
Part No.	Description	Material			
		A 216-WCB	A 217-WC6	A 217-WC9	A 217-C12A
100	Body	A 216-WCB	A 217-WC6	A 217-WC9	A 217-C12A
139	Bonnet ¹⁾	A 216-WCB+ST6 / A 105+ST6	A 217-WC6+ST6 / A 182-F11+ST6	A 217-WC9+ST6 / A 182-F22+ST6	A 217-C12A+ST6 / A 182-F91+ST6
162	Yoke	A 216-WCB	A 217-WCB	A 216-WCB	A 217-WC9
200	Stem	A 479-410-2	A 479-410-2	A 479-410-2	A 479-XM19-A
324	Thrust bearing	FAG/EQUIVALENT	FAG/EQUIVALENT	FAG/EQUIVALENT	FAG/EQUIVALENT
367	Disc holder	A 216-WCB	A 217-WC9	A 217-WC9	A 217-C12A
400	Gasket	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
452	Gland flange	IS 2002-2	IS 2002-2	IS 2002-2	A 182-F22 CL3
456	Gland bush	A 276-410	A 276-410	A 276-410	A 276-410
457	Packing ring	A 439-D2	A 439-D2	A 439-D2	A 439-D2
461	Gland packing	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
474	Thrust ring	A 336-F91	A 336-F91	A 336-F91	A 336-F91
504	Spacer ring	A 182-F22 CL3	A 182-F22 CL3	A 182-F22 CL3	A 182-F22 CL3
541	Seat ring	A 105+ST6	A 182-F22+ST6	A 182-F22+ST6	A 182-F91+ST6
544	Stem nut	AL. BRONZE	AL. BRONZE	AL. BRONZE	AL. BRONZE
550	Disc ²⁾	A 216-WCB+ST6 / A 105+ST6	A 217-WC9+ST6 / A 182-F22+ST6	A 217-WC9+ST6 / A 182-F22+ST6	A 217-C12A+ST6 / A 182-F91+ST6
583	Bonnet retainer	IS 2002-2 (A 516-60)	A 182-F22 CL3	A 182-F22 CL3	A 182-F22 CL3
701.1	By-pass tube	A 106-B	A 335-P22	A 335-P22	A 335-P91
741.1	By-pass valve	A 105	A 182-F22	A 182-F22	A 182-F91
902.1 / .2	Stud	A 193-B7	A 193-B16	A 193-B16	A 193-B16
920.1 / .2	Hex. nut	A 194-2H	A 194-4/7	A 194-4/7	A 194-4/7
961	Handwheel	SG IRON / Carbon Steel	SG IRON / Carbon Steel	SG IRON / Carbon Steel	SG IRON / Carbon Steel

1) Forging Upto 8" RB

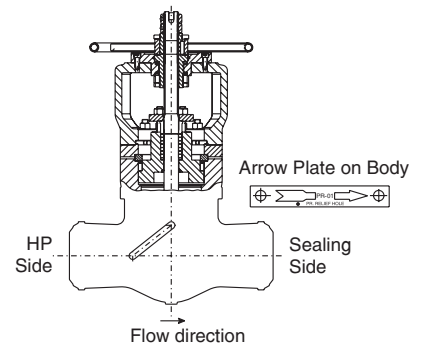
2) Forging Upto 10" RB

Pressure Relief Arrangement :

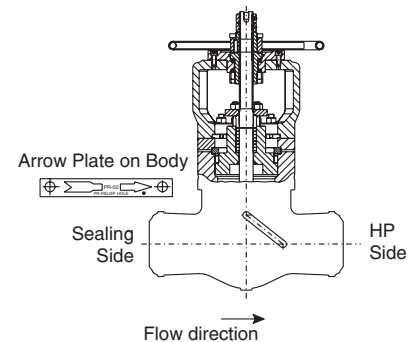
**Standard Pressure Relief Arrangement
Execution Ref. No. PR-03**



PR-01
External Pipe Connecting Bonnet
cavity at 'K' side,
Valve - Unidirectional

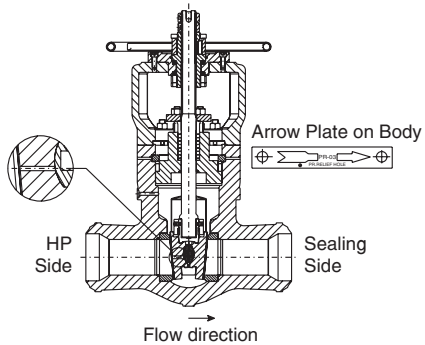


PR-02
External Pipe Connecting Bonnet
cavity at 'B' side,
Valve - Unidirectional

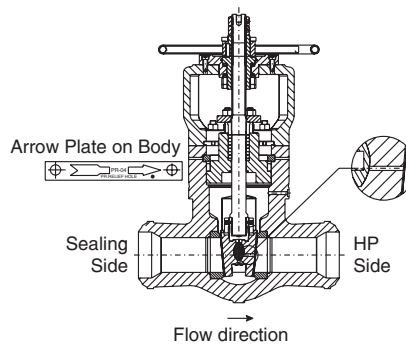


Rest shown here are optional arrangements

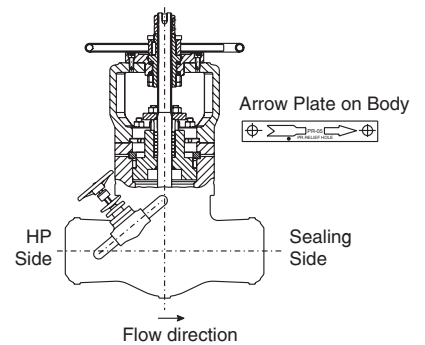
PR-03
Internal Pr. Relief Arrangement
Pr. Relief Hole on Disc at 'K' side,
Valve - Unidirectional



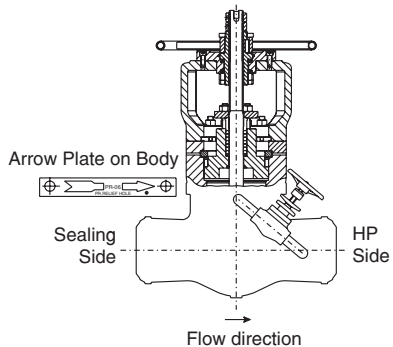
PR-04
Internal Pr. Relief Arrangement
Pr. Relief Hole on Disc at 'B' side,
Valve - Unidirectional



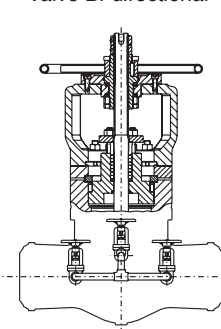
PR-05
External Pr. Relief pipe with
interconnection valve at 'K' side,
Valve - Unidirectional



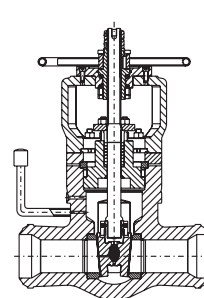
PR-06
External Pr. Relief pipe with
interconnection valve at 'B' side,
Valve - Unidirectional



PR-07
External Pr. Relief Arrangement
Decompression system
Valve Bi-directional



PR-08
External Pr. Relief Arrangement with
a Stub pipe at bonnet cavity for
mounting Safety Valve
Valve - Bi-directional



Note : 'K' side & 'B' side indicated above are with respect to as cast "KSB" mark on the valve body.

Testing

Test / Test pressure	#900		#1500		#2500		Testing medium
	kg/cm ²	psi	kg/cm ²	psi	kg/cm ²	psi	
Shell	238	3375	396	5625	660	9375	Water
Seat / Back Seat	175	2475	291	4125	484	6875	
Seat	6	85	6	85	6	85	Air

Pressure Temperature Rating - Standard Class
Rating for Group 1.1 Material : A 216 Gr. WCB ⁽¹⁾

Temperature		# 900		# 1500		# 2500	
°F	°C	PSI	Kg/cm ²	PSI	Kg/cm ²	PSI	Kg/cm ²
-20 to 100	-29 to 38	2220.0	156.1	3705.0	260.5	6170.0	433.8
200	93.3	2035.0	143.1	3395.0	238.7	5655.0	397.6
300	148.9	1965.0	138.2	3270.0	229.9	5450.0	383.2
400	204.4	1900.0	133.6	3170.0	222.9	5280.0	371.2
500	260.0	1810.0	127.3	3015.0	212.0	5025.0	353.3
600	315.6	1705.0	119.9	2840.0	199.7	4730.0	332.6
650	343.3	1650.0	116.0	2745.0	193.0	4575.0	321.7
700	371.1	1590.0	111.8	2665.0	187.4	4425.0	311.1
750	398.9	1520.0	106.9	2535.0	178.2	4230.0	297.4
800	426.7	1235.0	86.8	2055.0	144.5	3430.0	241.2
850	454.4	955.0	67.1	1595.0	112.1	2655.0	186.7
900	482.2	690.0	48.5	1150.0	80.9	1915.0	134.6
950	510.0	410.0	28.8	685.0	48.2	1145.0	80.5
1000	537.8	255.0	17.9	430.0	30.2	715.0	50.3

1) Permissible, but not recommended for prolonged use above 800°F

1 Kg/cm² = 0.981 Bar

Rating for Group 1.9 Material : A 217 Gr. WC6 ^{(1) (2)}

Temperature		# 900		# 1500		# 2500	
°F	°C	PSI	Kg/cm ²	PSI	Kg/cm ²	PSI	Kg/cm ²
-20 to 100	-29 to 38	2250.0	158.2	3750.0	263.7	6250.0	439.4
200	93.3	2250.0	158.2	3750.0	263.7	6250.0	439.4
300	148.9	2165.0	152.2	3610.0	253.8	6015.0	422.9
400	204.4	2080.0	146.2	3465.0	243.6	5775.0	406.0
500	260.0	1995.0	140.3	3325.0	233.8	5540.0	389.5
600	315.6	1815.0	127.6	3025.0	212.7	5040.0	354.3
650	343.3	1765.0	124.1	2940.0	206.7	4905.0	344.9
700	371.1	1705.0	119.9	2840.0	199.7	4730.0	332.6
750	398.9	1595.0	112.1	2660.0	187.0	4430.0	311.5
800	426.7	1525.0	107.2	2540.0	178.6	4230.0	297.4
850	454.4	1460.0	102.6	2435.0	171.2	4060.0	285.4
900	482.2	1350.0	94.9	2245.0	157.8	3745.0	263.3
950	510.0	955.0	67.1	1595.0	112.1	2655.0	186.7
1000	537.8	650.0	45.7	1080.0	75.9	1800.0	126.6
1050	565.6	430.0	30.2	720.0	50.6	1200.0	84.4
1100	593.3	290.0	20.4	480.0	33.7	800.0	56.2
1150	621.1	195.0	13.7	325.0	22.8	545.0	38.3
1200	648.9	125.0	8.8	205.0	14.4	345.0	24.3

1) Use Normalised and tempered material only.

2) Not to be used over 1100°F

Rating for Group 1.10 Material : A 217 Gr. WC9 ^{(1) (2)}

Temperature		# 900		# 1500		# 2500	
°F	°C	PSI	Kg/cm ²	PSI	Kg/cm ²	PSI	Kg/cm ²
-20 to 100	-29 to 38	2250.0	158.2	3750.0	263.7	6250.0	439.4
200	93.3	2250.0	158.2	3750.0	263.7	6250.0	439.4
300	148.9	2185.0	153.6	3640.0	255.9	6070.0	426.8
400	204.4	2115.0	148.7	3530.0	248.2	5880.0	413.4
500	260.0	1995.0	140.3	3325.0	233.8	5540.0	389.5
600	315.6	1815.0	127.6	3025.0	212.7	5040.0	354.3
650	343.3	1765.0	124.1	2940.0	206.7	4905.0	344.9
700	371.1	1705.0	119.9	2840.0	199.7	4730.0	332.6
750	398.9	1595.0	112.1	2660.0	187.0	4430.0	311.5
800	426.7	1525.0	107.2	2540.0	178.6	4230.0	297.4
850	454.4	1460.0	102.6	2435.0	171.2	4060.0	285.4
900	482.2	1350.0	94.9	2245.0	157.8	3745.0	263.3
950	510.0	1160.0	81.6	1930.0	135.7	3220.0	226.4
1000	537.8	800.0	56.2	1335.0	93.9	2230.0	156.8
1050	565.6	525.0	36.9	875.0	61.5	1454.0	102.2
1100	593.3	330.0	23.2	550.0	38.7	915.0	64.3
1150	621.1	205.0	14.4	345.0	24.3	570.0	40.1
1200	648.9	125.0	8.8	205.0	14.4	345.0	24.3

1) Use Normalised and tempered material only.

2) Not to be used over 1100°F

Rating for Group 1.15 Material : A 217 Gr. C12A

Temperature		# 900		# 1500		# 2500	
°F	°C	PSI	Kg/cm ²	PSI	Kg/cm ²	PSI	Kg/cm ²
-20 to 100	-29 to 38	2250.0	158.2	3750.0	263.7	6250.0	439.4
200	93.3	2250.0	158.2	3750.0	263.7	6250.0	439.4
300	148.9	2185.0	153.6	3640.0	255.9	6070.0	426.8
400	204.4	2115.0	148.7	3530.0	248.2	5880.0	413.4
500	260.0	1995.0	140.3	3325.0	233.8	5540.0	389.5
600	315.6	1815.0	127.6	3025.0	212.7	5040.0	354.3
650	343.3	1765.0	124.1	2940.0	206.7	4905.0	344.9
700	371.1	1705.0	119.9	2840.0	199.7	4730.0	332.6
750	398.9	1595.0	112.1	2660.0	187.0	4430.0	311.5
800	426.7	1525.0	107.2	2540.0	178.6	4230.0	297.4
850	454.4	1460.0	102.6	2435.0	171.2	4060.0	285.4
900	482.2	1350.0	94.9	2245.0	157.8	3745.0	263.3
950	510.0	1160.0	81.6	1930.0	135.7	3220.0	226.4
1000	537.8	1090.0	76.6	1820.0	128.0	3030.0	213.0
1050	565.6	1080.0	75.9	1800.0	126.6	3000.0	210.9
1100	593.3	905.0	63.6	1510.0	106.2	2515.0	176.8
1150	621.1	670.0	47.1	1115.0	78.4	1855.0	130.4
1200	648.9	430.0	30.2	720.0	50.6	1200.0	84.4

Pressure Temperature Rating - Special Class

Rating for Group 1.1 Material : A 216 Gr. WCB ⁽¹⁾

Temperature		# 900		# 1500		# 2500	
°F	°C	PSI	Kg/cm ²	PSI	Kg/cm ²	PSI	Kg/cm ²
-20 to 100	-29 to 38	2250.0	158.2	3750.0	263.7	6250.0	439.4
200	93.3	2250.0	158.2	3750.0	263.7	6250.0	439.4
300	148.9	2220.0	156.1	3700.0	260.1	6170.0	439.4
400	204.4	2200.0	154.7	3665.0	257.7	6105.0	429.2
500	260.0	2200.0	154.7	3665.0	257.7	6105.0	429.2
600	315.6	2200.0	154.7	3665.0	257.7	6105.0	429.2
650	343.3	2145.0	150.8	3575.0	251.3	5960.0	419.0
700	371.1	2075.0	145.9	3455.0	242.9	5760.0	405.0
750	398.9	1905.0	133.9	3170.0	222.9	5285.0	371.6
800	426.7	1545.0	108.6	2570.0	180.7	4285.0	301.3
850	454.4	1195.0	84.0	1995.0	140.3	3320.0	233.4
900	482.2	860.0	60.5	1435.0	100.9	2395.0	168.4
950	510.0	515.0	36.2	855.0	60.1	1430.0	100.5
1000	537.8	320.0	22.5	535.0	37.6	895.0	62.9

1) Permissible, but not recommended for prolonged use above 800°F

1 Kg/cm² = 0.981 Bar

Rating for Group 1.9 Material : A 217 Gr. WC6 ⁽¹⁾⁽²⁾

Temperature		# 900		# 1500		# 2500	
°F	°C	PSI	Kg/cm ²	PSI	Kg/cm ²	PSI	Kg/cm ²
-20 to 100	-29 to 38	2250.0	158.2	3750.0	263.7	6250.0	439.4
200	93.3	2250.0	158.2	3750.0	263.7	6250.0	439.4
300	148.9	2250.0	158.2	3750.0	263.7	6250.0	439.4
400	204.4	2250.0	158.2	3750.0	263.7	6250.0	439.4
500	260.0	2250.0	158.2	3750.0	263.7	6250.0	439.4
600	315.6	2250.0	158.2	3750.0	263.7	6250.0	439.4
650	343.3	2250.0	158.2	3750.0	263.7	6250.0	439.4
700	371.1	2200.0	154.7	3665.0	257.7	6110.0	429.6
750	398.9	2185.0	153.6	3645.0	256.3	6070.0	426.8
800	426.7	2160.0	151.9	3600.0	253.1	6000.0	421.8
850	454.4	2030.0	142.7	3385.0	238.0	5645.0	396.9
900	482.2	1760.0	123.7	2935.0	206.4	4895.0	344.2
950	510.0	1195.0	84.0	1995.0	140.3	3320.0	233.4
1000	537.8	810.0	56.9	1350.0	94.9	2250.0	158.2
1050	565.6	540.0	38.0	900.0	63.3	1500.0	105.5
1100	593.3	360.0	25.3	600.0	42.2	1000.0	70.3
1150	621.1	245.0	17.2	405.0	28.5	680.0	47.8
1200	648.9	155.0	10.9	255.0	17.9	430.0	30.2

1) Use Normalised and tempered material only.

2) Not to be used over 1100°F

Rating for Group 1.10 Material : A 217 Gr. WC9 ⁽¹⁾⁽²⁾

Temperature		# 900		# 1500		# 2500	
°F	°C	PSI	Kg/cm ²	PSI	Kg/cm ²	PSI	Kg/cm ²
-20 to 100	-29 to 38	2250.0	158.2	3750.0	263.7	6250.0	439.4
200	93.3	2250.0	158.2	3750.0	263.7	6250.0	439.4
300	148.9	2220.0	156.1	3695.0	259.8	6160.0	433.1
400	204.4	2185.0	153.6	3640.0	255.9	6065.0	426.4
500	260.0	2175.0	152.9	3620.0	254.5	6035.0	424.3
600	315.6	2165.0	152.2	3605.0	253.5	6010.0	422.5
650	343.3	2145.0	150.8	3580.0	251.7	5965.0	419.4
700	371.1	2120.0	149.1	3535.0	248.5	5895.0	414.5
750	398.9	2120.0	149.1	3535.0	248.5	5895.0	414.5
800	426.7	2120.0	149.1	3535.0	248.5	5895.0	414.5
850	454.4	2030.0	142.7	3385.0	238.0	5645.0	396.9
900	482.2	1800.0	126.6	3000.0	210.9	5000.0	351.5
950	510.0	1415.0	99.5	2360.0	165.9	3930.0	276.3
1000	537.8	1005.0	70.7	1670.0	117.4	2785.0	195.8
1050	565.6	655.0	46.1	1095.0	77.0	1820.0	128.0
1100	593.3	410.0	28.8	685.0	48.2	1145.0	80.5
1150	621.1	255.0	17.9	430.0	30.2	715.0	50.3
1200	648.9	155.0	10.9	255.0	17.9	430.0	30.2

1) Use Normalised and tempered material only.

2) Not to be used over 1100°F

Rating for Group 1.15 Material : A 217 Gr. C12A

Temperature		# 900		# 1500		# 2500	
°F	°C	PSI	Kg/cm ²	PSI	Kg/cm ²	PSI	Kg/cm ²
-20 to 100	-29 to 38	2250.0	158.2	3750.0	263.7	6250.0	439.4
200	93.3	2250.0	158.2	3750.0	263.7	6250.0	439.4
300	148.9	2250.0	158.2	3750.0	263.7	6250.0	439.4
400	204.4	2250.0	158.2	3750.0	263.7	6250.0	439.4
500	260.0	2250.0	158.2	3750.0	263.7	6250.0	439.4
600	315.6	2250.0	158.2	3750.0	263.7	6250.0	439.4
650	343.3	2250.0	158.2	3750.0	263.7	6250.0	439.4
700	371.1	2200.0	154.7	3665.0	257.7	6110.0	429.6
750	398.9	2185.0	153.6	3645.0	256.3	6070.0	426.8
800	426.7	2160.0	151.9	3600.0	253.1	6000.0	421.8
850	454.4	2030.0	142.7	3385.0	238.0	5645.0	396.9
900	482.2	1800.0	126.6	3000.0	210.9	5000.0	351.5
950	510.0	1415.0	99.5	2360.0	165.9	3930.0	276.3
1000	537.8	1260.0	88.6	2105.0	148.0	3505.0	246.4
1050	565.6	1260.0	88.6	2105.0	148.0	3505.0	246.4
1100	593.3	1130.0	79.4	1885.0	132.5	3145.0	221.1
1150	621.1	835.0	58.7	1395.0	98.1	2320.0	163.1
1200	648.9	540.0	38.0	900.0	63.3	1500.0	105.5

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