

CONBRACO PLUMBING & HEATING PRODUCTS

Section IV ASME Hot Water Boiler Relief Valves

10 SERIES

These capacity-certified relief valves protect against excessive water pressure (from thermal expansion) and steam generated when Btu input controls fail. Valves comply with ASME Section IV requirements. Ideal for use with hot water boilers and heating systems.



- Pressures from 30 to 150 psig
- Brass or bronze body available with satin or polished chrome finish
- Maximum temperature service: 250°F
- 10-321 in polished chrome only
- Registered in all Canadian provinces and territories, CRN #0G2663.1
- Stainless steel springs standard except 10-214
- 10-624/634 are ideal for use in various plumbing systems, commercial boiler applications and swimming pool heaters



10-102



10-104



10-321



10-407 & 10-417



10-634

Part No.	Size		Certified Pressure Range PSIG	Height	Wt./100 (Lbs.)	*Certified Capacity				
	Inlet NPT	Outlet NPT				30 PSIG	35 PSIG	40 PSIG	50 PSIG	60 PSIG
10-102	3/4 F	1 F	20-60	3-5/16	105	710,000	790,000	870,000	1,035,000	-
10-104	3/4 M	1 F	20-60	3-3/4	109	710,000	790,000	870,000	1,035,000	-
10-214	1 F	1 F	20-65	5	227	1,000,000	1,100,000	1,210,000	1,450,000	-
10-301	3/4 M	3/4 F	20-60	3-3/4	114	550,000	610,000	675,000	805,000	-
10-303	3/4 F	3/4 F	20-60	3-5/16	115	550,000	610,000	675,000	805,000	-
10-321	3/4 M	3/4 F	20-60	3-3/4	123	425,000	475,000	525,000	625,000	-
10-407	3/4 M	3/4 F	30&50	3	62	535,000	-	-	693,000	-
10-408	3/4 F	3/4 F	30&50	2-3/4	65	535,000	-	-	693,000	-
10-417	3/4 M	3/4 F	20-60	3	62	477,000	527,000	577,000	677,000	777,000
10-418	3/4 F	3/4 F	20-60	2-3/4	65	477,000	527,000	577,000	677,000	777,000

* National Board Capacity Certified - Btu Per Hour (90% of actual capacity at 10% accumulation)
ASME boiler and pressure vessel code - Section IV - Heating Boilers

KEY			
Part No. Pressure PSIG	Suffix Plain Brass	Satin Chrome	Polished Chrome
20	-02	-41	-67
22	-03	-42	-68
25	-04	-43	-69
30	-05	-44	-70
35	-06	-45	-71
40	-07	-46	-72
43	-08	-47	-73
45	-09	-48	-74
50	-10	-49	-75
55	-11	-50	-76
60	-12	-51	-77

Part No.	Size		Certified Pressure Range PSIG	Height	Wt./100 (Lbs.)	*Certified Capacity				
	Inlet NPT	Outlet NPT				30 PSIG	75 PSIG	100 PSIG	125 PSIG	150 PSIG
10-624	3/4 M	3/4 F	30-150	4-5/8	106	689,000	1,405,000	1,802,000	2,199,000	2,597,000
10-634	3/4 F	3/4 F	30-150	4-5/8	106	689,000	1,405,000	1,802,000	2,199,000	2,597,000

* Note: to order add pressure setpoint to the end of base number. (i.e. 10624150=150PSIG)

CONBRACO PLUMBING & HEATING PRODUCTS

Section IV ASME High Capacity Safety Relief Valves For Hot Water Boilers and Heating Systems

High-capacity valves with female inlet, expanded female outlet. Elevated seat for drainage of water away from seat area. Entire pressure range is National Board capacity certified.



- 3/4" to 2-1/2" connections
- High Btu capacity rating
- Silicone seat
- Fabric reinforced molded diaphragm isolates spring from water at all times
- Bronze body and spring cage
- Maximum temperature service 250°F
- Registered in Canadian provinces and territories CRN #OG2663.1C
- Protects against excessive water pressure due to failure of controls to regulate Btu input
- Pressures from 15-160 psig

10-600 SERIES



Part No.	Size		Certified Pressure Range PSIG	Wt./100 (Lbs.)	A (in.)	B (in.)	C (in.)	D (in.)
	Inlet NPT	Outlet NPT						
10-604	3/4F	3/4F	15-160	232	1-1/16	5-1/4	1-5/8	1-9/16
10-614	3/4F	1 F	15-160	226	1-1/4	5-1/4	1-23/32	1-9/16
10-605	1F	1F	15-160	410	1-1/4	6-11/16	2	2
10-615	1 F	1-1/4F	15-160	390	1-1/4	6-11/16	2	2
10-606	1-1/4F	1-1/4F	15-160	795	1-1/4	6-3/8	2-7/18	2-5/8
10-616	1-1/4F	1-1/2F	15-160	755	1-1/4	8-3/8	2-15/32	2-5/8
10-607	1-1/2F	1-1/2F	15-160	1100	2	10-3/4	2-3/4	3-1/8
10-617	1-1/2F	2F	15-160	1145	2	10-3/4	2-3/4	3-1/8
10-608	2F	2F	15-160	2375	2-3/16	14	3-11/16	3-1/2
10-618	2F	2-1/2F	15-160	2315	2 3/16	14	3-21/32	3-1/2

Use Suffix No. to designate last two digits of Part No. for desired pressure

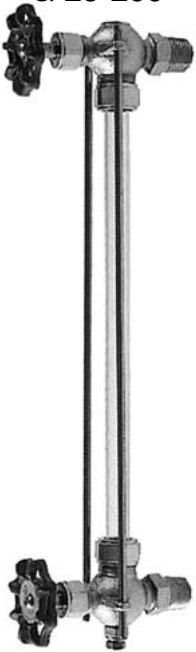
10-600 Series Discharge Capacities Btu/Hour						
Press. PSIG	Suffix No.	3/4 x 3/4 10-604	1 x 1 10-605	1-1/4 x 1-1/4 10-606	1-1/2 x 1-1/2 10-607	2 x 2 10-608
30	-05	827,000	1,339,000	2,316,000	3,151,000	5,193,000
50	-10	1,209,000	1,956,000	3,384,000	4,604,000	7,589,000
75	-15	1,686,000	2,728,000	4,720,000	6,421,000	10,583,000
100	-20	2,162,000	3,500,000	6,055,000	8,238,000	13,577,000
125	-25	2,639,000	4,272,000	7,390,000	10,054,000	16,571,000
150	-34	3,116,000	5,044,000	8,725,000	11,871,000	19,565,000

10-610 Series Discharge Capacities Btu/Hour						
Press. PSIG	Suffix No.	3/4 x 1 10-614	1 x 1-1/4 10-615	1-1/4 x 1-1/2 10-616	1-1/2 x 2 10-617	2 x 2-1/2 10-618
30	-05	970,000	1,570,000	2,716,000	3,696,000	6,091,000
50	-10	1,418,000	2,295,000	3,969,000	5,400,000	8,900,000
75	-15	1,977,000	3,200,000	5,535,000	7,531,000	12,412,000
100	-20	2,536,000	4,105,000	7,101,000	9,661,000	15,924,000
125	-25	3,096,000	5,011,000	8,668,000	11,792,000	19,435,000
150	-34	3,655,000	5,916,000	10,234,000	13,923,000	22,947,000

CONBRACO PLUMBING & HEATING PRODUCTS

Heavy Pattern Bronze Water Gauges

**20-200,
 20-250
 & 25-200**



All standard 20 Series features but with a heavier valve body pattern for higher service ratings.

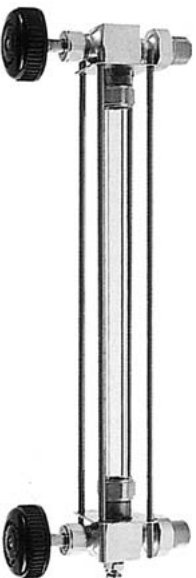
- Available with 3/8, 1/2 and 3/4 MNPT fittings
- Ball checks standard on 20-250 models
- Polished finish on 25-200 valves
- Rated: 200 psig @ 400°F, 400 psig @ 100°F (See note!)

Part No.	Pipe Size	Glass O.D. & Length	Wt./100 (Lbs.)	Wheel Type
20-201	3/8	5/8 x 10	185	ALUMINUM
20-202	3/8	5/8 x 10	189	COMPOSITION
20-204	1/2	5/8 x 12	205	ALUMINUM
20-205	1/2	5/8 x 12	205	COMPOSITION
20-207	3/4	3/4 x 16	270	ALUMINUM
20-208	3/4	3/4 x 16	270	COMPOSITION
20-250	1/2	5/8 x 12	195	ALUMINUM
20-251	1/2	5/8 x 12	200	COMPOSITION
20-253	3/4	3/4 x 16	355	ALUMINUM
20-254	3/4	3/4 x 16	360	COMPOSITION
25-201	3/8	5/8 x 10	180	ALUMINUM
25-202	3/8	5/8 x 10	185	COMPOSITION
25-204	1/2	5/8 x 12	190	ALUMINUM
25-205	1/2	5/8 x 12	190	COMPOSITION
25-207	3/4	3/4 x 16	290	ALUMINUM
25-208	3/4	3/4 x 16	295	COMPOSITION

* Note: Service ratings are subject to pressure/temperature ratings of gauge glass.

Square Pattern Bronze Water Gauges

**20-300, -350
 & 25-400,
 -500 Series**



Available with 1/2" (ASTM B-16 brass bar stock) or 3/4" (B-584 cast bronze) NPT male pipe connections. Four guard rods and EPDM gauge glass gaskets standard. Other packings available.

- Standard 1/4" needle drain valve in lower arm
- Pet cock or Apollo® ball valve drain on request
- Polished finish on 25-400 and 25-500
- Ball checks standard on 20-350 and 25-500
- Rated: 200 psig @ 400°F, 400 psig @ 100°F (See note!)

Part No.	Pipe Size	Glass O.D. & Length	Wt./100 (Lbs.)	Wheel Type
20-304	1/2	5/8 x 12	260	ALUMINUM
20-305	1/2	5/8 x 12	270	COMPOSITION
20-307	3/4	3/4 x 16	345	ALUMINUM
20-308	3/4	3/4 x 16	365	COMPOSITION
20-350	1/2	5/8 x 12	265	ALUMINUM
20-351	1/2	5/8 x 12	265	COMPOSITION
20-353	3/4	3/4 x 16	360	ALUMINUM
20-354	3/4	3/4 x 16	365	COMPOSITION
25-404	1/2	5/8 x 12	285	ALUMINUM
25-405	1/2	5/8 x 12	285	COMPOSITION
25-407	3/4	3/4 x 16	350	ALUMINUM
25-408	3/4	3/4 x 16	350	COMPOSITION
25-501	1/2	5/8 x 12	290	ALUMINUM
25-502	1/2	5/8 x 12	290	COMPOSITION
25-504	3/4	3/4 x 16	355	ALUMINUM
25-505	3/4	3/4 x 16	355	COMPOSITION

* Note: Service ratings are subject to pressure/temperature ratings of gauge glass.

CONBRACO PLUMBING & HEATING PRODUCTS

**20-600,
24-600 &
24-650 Series**



Chain Lever Water Gauges

Lever on standard 12-foot chain allows operator to open and close valves that would be beyond reach. Valve stems operate on quarter-turns.

- Rated 250 psig @ 400°F, 500 psig @ 100°F (See note!)
- Use on large boilers with inconvenient columns
- Automatic and non-automatic models
- Furnished with 12 feet of chain
- High pressure glass standard with the 24 series

Part No.	Pipe Size	Glass O.D. & Length	Wt./100 (Lbs.)
20-601-00**	1/2	5/8 x 12	370
20-602-00**	3/4	3/4 x 16	435
24-601-00	1/2	5/8 x 12	515
24-602-00	3/4	3/4 x 16	580
24-651-00*	1/2	5/8 x 12	515
24-652-00*	3/4	3/4 x 16	580

* Automatic model ** Ball valve not included Note: Service ratings are subject to pressure/temperature ratings of gauge glass.

Compression Gauge Cocks

For draining expansion tanks, other liquid storage vessels. *Specify the following suffix for finish:*
 01 - Satin Brass; 28 - Polished Brass.

26-100 & 26-300 Series



- 26-100: rated up to 125 psig
- 26-300: soft metal seat/stuffing box rated up to 250 psig
- 26-310: stainless steel ball seat/stuffing box rated up to 250 psig

Part No.	Size	Wt./100 (Lbs.)	Wheel Type
26-101	3/8	25.0	ALUMINUM
26-102	3/8	30.0	COMPOSITION
26-104	1/2	28.3	ALUMINUM
26-105	1/2	30.0	COMPOSITION
26-301	3/8	39.0	ALUMINUM
26-302	3/8	40.0	COMPOSITION
26-304	1/2	40.0	ALUMINUM
26-305	1/2	44.0	COMPOSITION
26-307	3/4	49.0	ALUMINUM
26-308	3/4	51.7	COMPOSITION
26-311	3/8	39.0	ALUMINUM
26-312	3/8	42.0	COMPOSITION
26-314	1/2	40.0	ALUMINUM
26-315	1/2	44.0	COMPOSITION
26-317	3/4	50.0	ALUMINUM
26-318	3/4	50.0	COMPOSITION

* 26-100 series is not available with packing nut

26-500 Series



Chain Operated Gauge Cocks For use on water columns beyond reach from the floor.

- Spring loaded lever
- PTFE seat
- Optional 6-foot chain (suffix -02)
- Rated up to 250 psig

Part No.	Size	Wt/100 (Lbs.)
26-504-01	1/2	110
26-507-01	3/4	115