3EEY1

BtuH

1,900,000

Overall

Heiaht

2 7/8 in 3 11/16 in

7/8 in 410.000

2 5/6 in 3 11/6 in 475,000 5 % in 2 1/6 in 643,000 3 % in 4 1/2 in 1,200,000

1/4 in

8 1/4 in

8 ¾ in

Overall

Lenath

2 5/6 in 2 ³/16 in

Low-Pressure Steam Heating Boiler Safety Relief Valves

All have top guiding seals and positive condensate drainage

except Kunkle valves have bronze discs and brass seats. Watts

for extended service life. Cast-bronze construction. except Kunkle models are cast iron. Raised EPDM discs and seats;

valves have PTFE discs and metal seats. All have stainless

steel springs except Kunkle models are steel. MNPT x FNPT

connections. 3EEY1, 3EEY6, and 3EEY7 have MNPT bottom

Overall Overall

Length Height

3⁄16 in

4 in 5 ¼ in

3 in 3 ½ in

4 in

connection and top outlet discharge.

Factory

Set

Pressure

15 psi

Outlet Factory Set Size Pressure

ps

5 psi 10 ps

10 psi

15 psi 15 psi

DS

10 ps 15 ps



3EEY8

Item

3EEY1

3EEY2

3FFY3

3EEY4

3FFY5

Item

No.

3EEY6

3EEY 3EEY

3EEY

36JC12 36JC13

Brand

Apollo

Apollo

Apollo

Apollo

Apollo

Brand

Apollo

Apollo Apollo

Apollo Watts Watts

Kunkle Valve 31LH25 Kunkle Valve 31LH26

Kunkle Valve 31LH27



ASME Section I Steam and Section VIII POP Safety Relief Valves

Valves are factory preset and sealed to prevent tampering. Not adjustable. MNPT x FNPT connections. Note: For ASME Certified valves custom set to other pressure settings, call 1-800-GRAINGER (472-4643).

KUNKLE

- Temp. range: -60° to 406°F

Pivot between disc and spring helps correct misalignment. ASME Section I has ethylene propylene seals: ASME Section VIII has Viton seals. For air/gas compressors, steam boilers, and generators.

APOLLO

Temp. range: -320° to 800°F (stainless steel), -320° to 406°F (bronze)

Full-nozzle design can be used in closed systems. Metal-to-metal seating. Ideal for pressure vessels and pressure piping systems. Packed lever allows manual operation/testing as required by ASME code for steam, air, and hot water above 140°F service. Screwed cap are not for use with air, steam, or water above 140°F, where a packed lever must be used.

AQUATROL, ASME SECTION VIII

Temp. range: -320°F to 406°F

High-capacity, multipurpose valves with a dual lapped disc for improved seating tightness. Stainless steel disc and spring.

Inlet Size Outlet Size	CHOOSE: Preset Setting
Aquatrol with Clocod Can	ASME Section VIII Liquid - Brace/Bronzo

Aquatrol	with Closed Cap	, ASME Section VIII, Liquid - Brass/Bronze
1/2 in	3/4 in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300 H7203
3⁄4 in	1 in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300 H7204
1 in	1 1⁄4 in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300 H7205
1 1⁄4 in	1 ½ in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300 H7206
1 ½ in	1 ½ in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300 H7207
2 in	2 in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300 H7208
Aquatrol	, with Test Lever	ASME Section VIII, Air/Gas - Brass/Bronze Body
1/2 in	3⁄4 in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300 H7209
3⁄4 in	1 in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300 H7210
1 in	1 1⁄4 in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300 H7211
1 1⁄4 in	1 ½ in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300 H7212
1 1/ in		
1 ½ in 2 in	1 ½ in 2 in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300 15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300 H7214

Series 69 Relief Valves Aquatrol

Max. temp.: 450°F

Field-adjustable pressure is factory set to midrange for minimal effect on flow capacity rates. Adjustment requires no disassembly; simply remove hex cap. Closed bonnet, sealed hex cap, and lapped metal seating eliminate leakage. Stainless steel springs. MNPT x FNPT connections. For pressure relief, liquid relief, continuous bypass, and overprotection for pumping stations, tanks, hydraulics, fluid, and pipelines.



Preset Setting (psi) Pressure Range 0 to 15 psi 16 to 30 psi 31 to 50 psi

51 to 30 psi 51 to 75 psi 76 to 100 psi 101 to 125 psi 126 to 150 psi 151 to 200 psi 201 to 250 nsi 251 to 300 psi

				50
Inlet Size	Outlet Size	CHOOSE: Preset Setting (psi)	Item No.	75
Bronze Disc and Bronze Seat				100
1/2 in	1/2 in	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	D4547	125
3⁄4 in	3⁄4 in	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	D4548	150
1 in	1 in	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	D4549	200
1 1/4 in	1 1/4 in	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	D4551	250
1 ½ in	1 1/2 in	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	D4552	300
2 in	2 in	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	D4553	Preset
Inlet Size	Outlet Size	CHOOSE: Preset Setting (nsi)	Item No	
Inlet Size	Outlet Size		Item No.	Setting (psi)
316 Stainles	ss Steel Disc a	and 316 Stainless Steel Seat		Setting (psi) 100
316 Stainles	ss Steel Disc a	and 316 Stainless Steel Seat 100, 150, 200, 250, 300, 400, 600	D4554	Setting (psi) 100 150
316 Stainles 1/2 in 3/4 in	ss Steel Disc a 1/2 in 3/4 in	and 316 Stainless Steel Seat 100, 150, 200, 250, 300, 400, 600 100, 150, 200, 250, 300, 400, 600	D4554 D4555	Setting (psi) 100 150 200
316 Stainles	ss Steel Disc a	and 316 Stainless Steel Seat 100, 150, 200, 250, 300, 400, 600	D4554	Setting (psi) 100 150 200 250
316 Stainles 1/2 in 3/4 in	ss Steel Disc a 1/2 in 3/4 in	and 316 Stainless Steel Seat 100, 150, 200, 250, 300, 400, 600 100, 150, 200, 250, 300, 400, 600	D4554 D4555	Setting (psi) 100 150 200
316 Stainles 1/2 in 3/4 in 1 in	ss Steel Disc a 1/2 in 3/4 in 1 in	and 316 Stainless Steel Seat 100, 150, 200, 250, 300, 400, 600 100, 150, 200, 250, 300, 400, 600 100, 150, 200, 250, 300, 400, 600	D4554 D4555 D4556	Setting (psi) 100 150 200 250
316 Stainles 1/2 in 3/4 in 1 in 1 1/4 in	ss Steel Disc a 1/2 in 3/4 in 1 in 1 1/4 in	and 316 Stainless Steel Seat 100, 150, 200, 250, 300, 400, 600 100, 150, 200, 250, 300, 400, 600 100, 150, 200, 250, 300, 400, 600 200, 250, 300, 400, 600, 100, 150	D4554 D4555 D4556 D4557	<u>Setting (psi)</u> 100 150 200 250 300
316 Stainles 1/2 in 3/4 in 1 in 1 1/4 in 1 1/2 in	ss Steel Disc a 1/2 in 3/4 in 1 in 1 1/4 in 1 1/2 in	and 316 Stainless Steel Seat 100, 150, 200, 250, 300, 400, 600 100, 150, 200, 250, 300, 400, 600 100, 150, 200, 250, 300, 400, 600 200, 250, 300, 400, 600, 100, 150 100, 150, 200, 250, 300, 400, 600	D4554 D4555 D4556 D4557 D4558	Setting (psi) 100 150 200 250 300 400



Apollo

D4489

Kunkle

D4476

	CHOOSE:	
Inlet Outle	t Preset	Item
Size Size	Setting (psi)	No.
	Plain Lever, ASME	
16 in 34 in	team - Bronze Body 25, 50, 100, 150, 200	D4476
3/4 in 1 in	25, 50, 100, 150, 200	D4470
1 in 11/4 i	n 25 50 100 150 200	D4478
1 ¼ in 1 ½ i	n 25, 50, 100, 150, 200	D4479
1 ½ in 2 in	25, 50, 100, 150, 200	D4481
2 in 2 ½ i	n 25, 50, 100, 150, 200 25, 50, 100, 150, 200 25, 50, 100, 150, 200 n 25, 50, 100, 150, 200	D4482
Kunkle with	Plain Lever, ASME Section	1
VIII, Air/Gas	- Bronze Body	
<u>1/2 in 3/4 in</u>	25, 50, 100, 150, 200	D4483
<u>- %4 in 1 in</u>	25, 50, 100, 150, 200 25, 50, 100, 150, 200 n 25, 50, 100, 150, 200 n 25, 50, 100, 150, 200	D4484
1 1/ in 1 1/4 i	n 25, 50, 100, 150, 200	D4480
$\frac{1}{1}\frac{1}{2}$ in $\frac{1}{2}$ in $\frac{1}{2}$ in	25, 50, 100, 150, 200	D4400
$\frac{1}{2}$ in $\frac{2}{16}$ i	n 25 50 100 150 200	D4487
Anollo with	n 25, 50, 100, 150, 200 Packed Lever, ASME Secti	nn VIII.
Air/Gas. NB.	CSA CRN - Stainless Steel	Body
1 in 1 1/4 i	n 50, 100, 150, 200, 300	D4508
1 in 11/2 i	n 50, 100, 150, 200, 300	D4509
Apollo with	Screwed Cap, ASME Section	on
VIII, Air/Gas	, UV, CSA CRN - Bronze Bo	dy
1/2 in 3/4 in	75, 125, 150, 175, 200 75, 125, 150, 175, 200 75, 125, 150, 175, 200 75, 125, 150, 175, 200	D4489
½ in 1 in	75, 125, 150, 175, 200	D4491
3/4 in 3/4 in	/5, 125, 150, 175, 200	D4492
<u>9/4 IN 1 IN</u>	75, 125, 150, 175, 200	D4493 D4494
<u>34 in 114 i</u> 1 in 114 i	n 75, 125, 150, 175, 200	D4494 D4495
1 1/4 in 1 1/2 i		D4495 D4497
1 1/4 in 2 in	75, 125, 150, 175, 200	D4497 D4498
1 16 in 2 in	75 125 150 175 200	D//00
1 1/2 in 2 1/2 i	n 75 125 150 175 200	D4501
2 in 2 ½ i	n 75, 125, 150, 175, 200	D4502
2 in 3 in	75, 125, 150, 175, 200	D4503
1 in 1 ½ i	75, 125, 150, 175, 200 n 75, 125, 150, 175, 200 r 75, 125, 150, 175, 200 r 75, 125, 150, 175, 200 n 125, 150, 175, 200	D4496
Apollo with	Screwed Cap, ASME Section	on VIII,

 Air/Gas, UV, NB, CSA CRN - Stainless Steel

 ½ in
 1 in
 50, 100, 150, 200, 300
 D4

 ¾ in
 1 in
 50, 100, 150, 200, 300
 D4

 ¾ in
 1 ¼ in
 50, 100, 150, 200, 300
 D4
D4504 D4505 D4506 1 ½ in 50, 100, 150, 200, 300 D4507

(psi)

Item No.

2 3/16 in 2 5/6 in 2 1/8 in 2 3/8 in 5 3/8 in 5 3/8 in 2 3/8 in 2 ³/₄ in 2 ¹³/₁₆ in 2 ¹/₁₆ in **3EEZ** Apollo 3EEZ2 36JC14 in Apollo Watts <u>2 1/16</u> 3 1/8 D4511 D4517

Aquatrol

KUNKLE 🚯

Max. temp.: 250°F

Inlet Outlet

1 in 1 in 1/4 in 1 1/2 in

1 ½ in 2 in 2 in 2 in 2 ½ in 2 ½ in

ASME Section IV, Coded

3⁄4 in 3∕4 in

3 in

3⁄4 in

1 in

Size Size

3⁄4 in 3⁄4 in

1 in

Inlot

Size

3⁄4 in

1 in

Noncoded

WATTS

ASME Section VIII Air and **Inert Gas Safety Relief Valves**

- Pressure range: 0 to 250 psig
- Max. temp.: 406°F

Bronze valves have bronze discs, stainless steel springs, and precision lapped bronze seats. Single-ring blowdown assures quick, accurate reseating when opening/popping. MNPT x FNPT connections. For use in air compressors, pressurized production lines, and tanks. Series 88 models feature valve handle that allows field testing and simple cleanout. Series 89 models include sealed and closed hex cap.

Note: Valves are factory preset and sealed to prevent tampering. Not adjustable.

Inlet Outlet	CHOOSE: Preset	ltem
Size Size	Setting (psi)	No.
Series 88	ootting (por)	
1/2 in 3/4 in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4511
³ / ₄ in 1 in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4512
1 in 11/4 in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4513
1 1/4 in 1 1/2 in	15, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4514
1 ½ in 2 in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4515
2 in 2 ½ in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4516
Series 89		
1/2 in 3/4 in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4517
3/₄in 1in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4518
1 in 11/4 in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4519
1 ¼ in 1 ½ in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4521
1 ½ in 2 in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4522
2 in 2 ½ in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4523

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Pressure Range 51 to 100 psi 101 to 150 psi 151 to 200 psi 201 to 250 psi 251 to 300 psi 261 to 400 psi 301 to 400 401 to 600