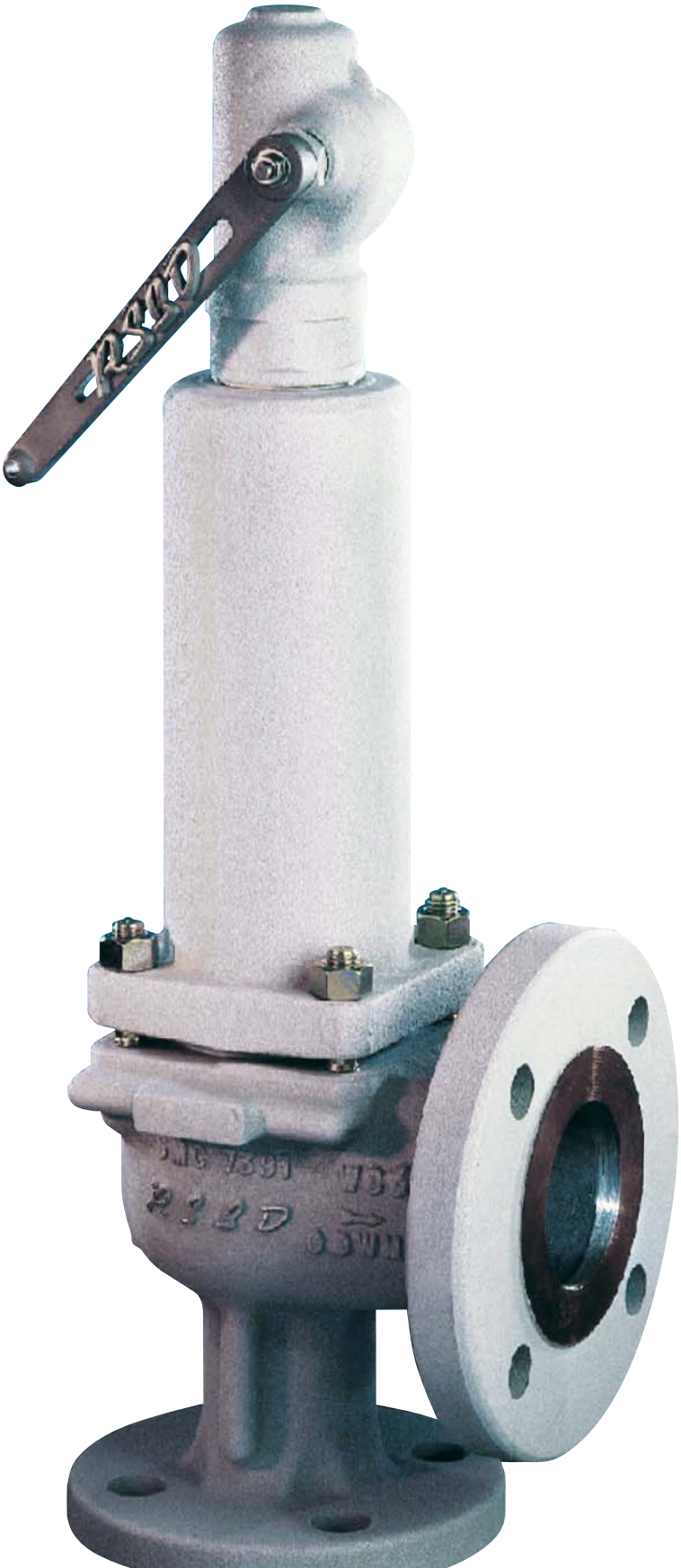
SARASIN-RSBD

Excellent
Power & Industrial
Solutions

WEIR
POWER & INDUSTRIAL

Spring Loaded Safety Relief Valve

63 Series



Quality assurance (division)

Weir Power & Industrial operates quality programmes to cover the full scope of their activities. Comprehensive quality systems have been developed to serve the power, oil and gas and industrial markets which they serve.

The company holds approvals to or complies with:

- ASME Section III 'N', 'NPT', 'NV'
- ASME Section I 'V'
- ASME Section VIII 'UV'
- BS EN ISO 9001: 2000
- NF EN ISO 9001: 2000
- NF EN ISO 14001: 2000
- API Q1 TO API LICENCES API 6D (6D-0182) AND API 6A (6A-0445)
- API RP 520
- API STD 526
- API STD 527
- API STD 2000
- ISO 4126

6A-0445
6D-0182

The Quality systems have been approved for the supply of products to meet the requirements of the Pressure Equipment Directive (PED) and compliance modules A, D1, H, B&D have been applied in categories I through IV respectively.

The company is committed to compliance with legislation and has an established environment and health and safety policy.

An ongoing commitment to customer care is met through the process of continuous improvement and the further development of our systems and processes towards meeting ISO 9001:2000.

Valve Testing Facilities

All pressure containing items are hydrostatically tested, seat leakage tested and functionally tested. In addition, gas, packing emission, cryogenic and advanced functional testing can be arranged.

Material testing facilities

- Non-destructive examination by radiography, ultrasonics, magnetic particle and liquid penetrant.
- Chemical analysis by computer controlled direct reading emission spectrometer.
- Mechanical testing for tensile properties at ambient and elevated temperatures, bend and hardness testing. Charpy testing at ambient, elevated and sub-zero temperatures.

Further technical information can be obtained from our Web site: http://www.weirpowerindustrial.com

Sarasin-RSBD

Weir Power & Industrial manufactures the Sarasin-RSBD range of spring loaded safety relief valves for oil and gas, petrochemical and chemical industries, pipelines, thermal and nuclear power plants, sugar refineries and pulp mills.

The Sarasin-RSBD range of products is manufactured in accordance with ASME, API and ISO standards and therefore can meet most of worldwide customers requirements. The company holds approvals or complies with:

NF EN ISO 9001:2000 - NF EN ISO 14001:2000
PED 97/23/EC Module B+D Category IV
ATEX 94/9/EC
ASME Section I 'V' - ASME Section VIII 'UV'
API RP 520 - API STD 526 - API STD 527
API STD 2000
ISO 4126
SELO

Specifically, Weir Power & Industrial can design and manufacture special valves to meet special customer requirements.

CONTENTS

Introduction

The 63 series is a semi nozzle non-coded valve for general industry applications such as petrochemical, chemical, power, water treatment, ship, etc.

The design of this valve complies with ASME B16.34.

The sizing complies with the ISO 4126.

Features

- Full Lift
- Semi Nozzle
- Gas - Liquid - Steam service
- 1" (ND 25) up to 10" (ND 250).
- Set pressure up to 50 barg (725 psig)
- Temperature up to 350˚ C (660˚F)

Connections

- Flanged:
  - Inlet: EN 1092-1 PN 16 - 25 - 40
    ASME B16.5 150 - 300 (or to EN 1759-1 150-300)
  - Outlet: EN 1092-1 PN 10 -16 - 25
    ASME B16.5 150 - 300 (or to EN 1759-1 150-300)

Design

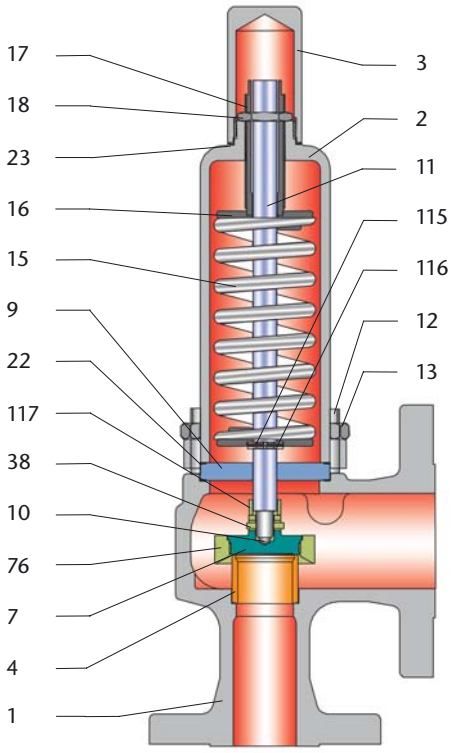
- Removable Deflector:
  For an easy maintenance (Lapping)
- Metal to Metal Seats

Materials of Construction

- Body:
  - Carbon Steal (SA 216 Gr WCC)
  - Stainless Steel (SA 351 Gr CF8M)
- Trim:
  - Carbon and Stainless Steel (Carbon Steel design).
  - Stainless Steel (Stainless Steel design).

Options

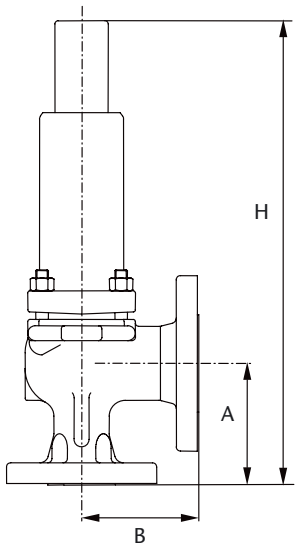
- Lifting Lever
- Test Gag



Materials of Construction

Item	Designation	Materials	
		Carbon Steel Design	Stainless Steel Design
1	Body	SA 216 Gr WCC	SA 351 Gr CF8M
2	Bonnet	SA 216 Gr WCC	SA 351 Gr CF8M
3	Cap	CS	SS
4	Nozzle	SS 316L	SS 316L
7	Disc	SS 316L / 17-4PH / SS 410	SS 316L / 17-4PH
9	Spindle guide	SS / SS 410	SS 316L
10	Ball	SS / CS	SS
11	Spindle	SS / SS 410	SS 316L
12	Stud	B7	B8
13	Nut	Gr. 2H	Gr. 8
15	Spring	CS	SS
16	Spring Washer	CS /SS	SS 316L
17	Adjusting Screw	SS / SS 410	SS 316L
18	Adj. Sc. Locknut	SS / SS 410	SS 316L
22-23	Gaskets	As per fluid	As per fluid
38	Pin	SS	SS
76	Deflector + screw	SS / SS 410	SS 316L
115	Half ring	SS / SS 410	SS 316L
116	Retainer	SS / inconel	SS / inconel
117	Stop lift ring	SS/SS 410	SS 316L

Orifices and Dimensions



SIZES	Inlet			Outlet		Dimensions			Weight
	EN 1092 ASME B16.5 Rating	Max.set pressure at 20°C (68°F) barg (psig)		EN 1092 ASME B16.5 Rating	Max BP for CS body barg (psig)	A mm (in)	B mm (in)	H mm (in)	Lb (Kg)
1" x 1½" ND 25 x ND 40 **23 mm** (ø 0.906 in) **Area : 4.16 cm²** (0.644 in²)	PN16	16 (232)	16 (232)	PN16	8 (116)	4.13 (105)	3.94 (100)	17.7 (450)	24 (11)
	Cl. 150	20 (290)	19 (275.5)	Cl. 150	10 (145)				
	PN40	40 (580)	40 (580)	PN16	16 (232)				
	Cl. 300	50 (725)	49.5 (718)	Cl. 150	20 (290)				
1¼" x 2" ND 32 x ND 50 **29 mm** (ø 1.142 in) **Area : 6.61 cm²** (1.024 in²)	PN16	16 (232)	16 (232)	PN16	8 (116)	4.53 (115)	4.33 (110)	19.9 (505)	35 (16)
	Cl. 150	20 (290)	19 (275.5)	Cl. 150	10 (145)				
	PN40	40 (580)	40 (580)	PN16	16 (232)				
	Cl. 300	50 (725)	49.5 (718)	Cl. 150	20 (290)				
1 ½" x 2 ½" ND 40 x ND 65 **37 mm** (ø 1.457 in) **Area : 10.75 cm²** (1.667 in²)	PN16	16 (232)	16 (232)	PN16	8 (116)	5.51 (140)	4.53 (115)	22.4 (570)	48.5 (22)
	Cl. 150	20 (290)	19 (275.5)	Cl. 150	10 (145)				
	PN40	40 (580)	40 (580)	PN16	16 (232)				
	Cl. 300	50 (725)	44 (638)	Cl. 150	20 (290)				
2" x 3" ND 50 x ND 80 **46 mm** (ø 1.811 in) **Area : 16.62 cm²** (2.576 in²)	PN16	16 (232)	16 (232)	PN16	8 (116)	5.91 (150)	4.72 (120)	25.2 (640)	66 (30)
	Cl. 150	20 (290)	19 (275.5)	Cl. 150	10 (145)				
	PN40	40 (580)	34 (493)	PN40	16 (232)				
	Cl. 300	50 (725)	34 (493)	Cl. 150	20 (290)				
2½" x 4" ND 65 x ND 100 **60 mm** (ø 2.362 in) **Area : 28.27cm²** (4.383 in²)	PN16	16 (232)	16 (232)	PN16	8 (116)	6.69 (170)	5.51 (140)	31.5 (800)	110 (50)
	Cl. 150	20 (290)	19 (275.5)	Cl. 150	10 (145)				
	PN40	40 (580)	28 (406)	PN16	16 (232)				
	Cl. 300	42 (609)	28 (406)	Cl. 150	20 (290)				
3" x 5" ND 80 x ND 125 **74 mm** (ø 2.913 in) **Area : 43.01 cm²** (6.666 in²)	PN16	16 (232)	16 (232)	PN16	8 (116)	7.68 (195)	6.30 (160)	35.4 (900)	165 (75)
	Cl. 150	20 (290)	19 (275.5)	Cl. 150	10 (145)				
	PN40	40 (580)	26 (377)	PN16	16 (232)				
	Cl. 300	40 (580)	26 (377)	Cl. 150	20 (290)				

SIZES	Inlet			Outlet		Dimensions			
	EN 1092 ASME B16.5 Rating	Max.set pressure at 20˚C (68˚F) barg (psig)		EN 1092 ASME B16.5 Rating	Max BP for CS body barg (psig)	A mm (in)	B mm (in)	H mm (in)	Weight Lb (Kg)
4" x 6" ND 100 x ND 150 92 mm (ø 3.622 in) Area : 66.48 cm² (10.30 in²)	16	16 (232)	16 (232)	16	8 (116)	8.66 (220)	7.09 (180)	40 (1020)	236 (107)
	20/150	20 (290)	19 (275.5)	20/150	10 (145)				
	40	30 (435)	22 (319)	16	15 (217.5)				
	50/300	435 (30)	22 (319)	20/150	15 (217.5)				
5" x 8" ND 125 x ND 200 100 mm (ø 3.937 in) Area : 78.54 cm² (12.17 in²)	16	16 (232)	16 (232)	10	8 (116)	7.87 (200)	7.87 (200)	41.3 (1050)	264 (120)
	16	16 (232)	16 (232)	16	8 (116)				
	20/150	20 (290)	19 (275.5)	20/150	10 (145)				
6" x 8" ND 150 x ND 200 115 mm (ø 4.528 in) Area : 103.87 cm² (16.10 in²)	16	16 (232)	16 (232)	10	8 (116)	8.86 (225)	8.86 (225)	43.3 (1100)	297 (135)
	16	16 (232)	16 (232)	16	8 (116)				
	20/150	20 (290)	16 (232)	20/150	10 (145)				
8" x 10" ND 200 x ND 250 150 mm (ø 5.06 in) Area : 176,72 cm² (27.39 in²)	16	16 (232)	10 (145)	10	8 (116)	11.81 (300)	10.83 (275)	51 (1300)	507 (230)
	16	16 (232)	10 (145)	16	8 (116)				
	20/150	16 (232)	10 (145)	20/150	8 (116)				
10" x 14" ND 250 x ND 350 200 mm (ø 7.874 in) Area : 314.16 cm² (48.69 in²)	16	16 (232)	10 (145)	10	8 (116)	14.57 (370)	12.80 (325)	55 (1400)	793 (360)
	16	16 (232)	10 (145)	16	8 (116)				
	20/150	16 (232)	10 (145)	20/150	8 (116)				

Accessories

1) Lifting lever
2) Test gag

Air Capacities Chart (SCFM)

Calculation to ISO 4126-1 (December 1991) : 10% or 0.2 b overpressure (whichever is greater) and with Kd of 0.75

Size Orifice Section Pressure psig	1" x 1½" 0,906 in 0,644 in² Flow SCFM	1¼" x 2" 1,142 in 1,024 in² Flow SCFM	1½" x 2½" 1,457 in 1,667 in² Flow SCFM	2" x 3" 1,811 in 2,576 in² Flow SCFM	2½" x 4" 2,362 in 4,383 in² Flow SCFM	3" x 5" 2,913 in 6,666 in² Flow SCFM	4" x 6" 3,622 in 10,30 in² Flow SCFM	5" x 8" 3,937 in 12,17 in² Flow SCFM	6" x 8" 4,528 in 16,10 in² Flow SCFM	8" x 10" 5,06 in 27,39 in² Flow SCFM	10" x 14" 7,874 in 48,69 in² Flow SCFM
7,5	131	209	340	525	893	1 359	2 101	2 482	3 282	5 584	9 927
15	205	326	530	820	1 395	2 121	3 279	3 874	5 124	8 717	15 497
30	365	580	944	1 460	2 484	3 778	5 839	6 899	9 123	15 522	27 595
40	463	736	1 198	1 852	3 151	4 793	7 408	8 752	11 575	19 693	35 010
50	550	874	1 428	2 199	3 741	5 691	8 797	10 393	13 745	23 384	41 572
60	637	1 012	1 647	2 546	4 332	6 590	10 185	12 033	15 914	27 075	48 134
70	723	1 150	1 872	2 893	4 923	7 488	11 574	13 674	18 084	30 766	54 696
80	810	1 288	2 097	3 241	5 513	8 386	12 962	15 314	20 253	34 457	61 258
100	984	1 564	2 546	3 935	6 694	10 183	15 739	18 595	24 592	41 840	74 381
120	1 157	1 840	2 995	4 629	7 875	11 979	18 516	21 876	28 931	49 222	87 505
145	1 374	2 185	3 556	5 497	9 352	14 225	21 987	25 978	34 355	58 449	103 910
170	1 591	2 530	4 118	6 365	10 828	16 471	25 459	30 079	39 779	67 677*	120 315*
200	1 852	2 944	4 792	7 406	12 600	19 166	29 624	35 000	46 288	78 750*	140 001*
232	2 129	3 385	5 510	8 517	14 490	22 041	34 067	40 250	53 230	90 562*	160 999*
261	2 381	3 785	6 161	9 524	16 203	24 646	38 094	45 007	59 522*		
290	2 633	4 185	6 813	10 530	17 915	27 251	42 121	49 764	65 814*		
319	2 884	4 585	7 464	11 537	19 628	29 856	46 147				
340	3 066	4 875	7 936	12 266	20 868	31 743	49 063*				
370	3 327	5 289	8 609	13 307	22 640	34 438	53 229*				
406	3 639	5 786	9 418	14 557	24 766	37 672*	58 227*				
430	3 847	6 117	9 957	15 390	26 183*	39 828*	61 560*				
460	4 108	6 531	10 631	16 431	27 955*	42 523*					
493	4 394	6 986	11 372	17 577	29 904*	45 487*					
530	4 715	7 496	12 203	18 861*	32 089*	48 811*					
560	4 976	7 910	12 876	19 903*	33 861*	51 506*					
590	5 236	8 324	13 550	20 944*	35 632*	54 201*					
620	5 496	8 793	14 224	21 985*	37 404*						
638	5 653	8 986	14 628	22 610*							
670	5 930	9 428	15 347*	23 721*							
700	6 191	9 842	16 021*	24 762*							
725	6 408	10 187	16 582*	25 630*							

* = Carb/ Steel Design

Saturated Steam Capacities Chart (Lbs/h)

Calculation to ISO 4126-1 (December 1991) : 10% or 0.2 b overpressure (whichever is greater) and with Kd of 0.75

Size Orifice Section Pressure psig	1" x 1½" 0,906 in 0,644 in² Flow Lbs/h	1¼" x 2" 1,142 in 1,024 in² Flow Lbs/h	1½" x 2½" 1,457 in 1,667 in² Flow Lbs/h	2" x 3" 1,811 in 2,576 in² Flow Lbs/h	2½" x 4" 2,362 in 4,383 in² Flow Lbs/h	3" x 5" 2,913 in 6,666 in² Flow Lbs/h	4" x 6" 3,622 in 10,30 in² Flow Lbs/h	5" x 8" 3,937 in 12,17 in² Flow Lbs/h	6" x 8" 4,528 in 16,10 in² Flow Lbs/h	8" x 10" 5,06 in 27,39 in² Flow Lbs/h	10" x 14" 7,874 in 48,69 in² Flow Lbs/h
7,5	373	592	964	1 490	2 535	3 856	5 961	7 042	9 313	15 845	28 169
15	582	925	1 505	2 326	3 957	6 020	9 304	10 993	14 538	24 734	43 972
30	1 036	1 646	2 680	4 142	7 047	10 719	16 568	19 575	25 888	44 044	78 301
40	1 314	2 089	3 400	5 255	8 941	13 600	21 021	24 835	32 845	55 880	99 342
50	1 560	2 480	4 037	6 240	10 617	16 149	24 961	29 490	39 001	66 353	117 962
60	1 806	2 872	4 674	7 225	12 292	18 698	28 901	34 145	45 157	76 827	136 581
70	2 053	3 263	5 312	8 210	13 968	21 247	32 841	38 800	51 313	87 301	155 201
80	2 299	3 655	5 949	9 195	15 644	23 796	36 780	43 455	57 469	97 774	173 821
100	2 791	4 438	7 224	11 165	18 995	28 894	44 660	52 765	69 782	118 721	211 060
120	3 284	5 220	8 498	13 135	22 347	33 992	52 540	62 075	82 094	139 668	248 299
145	3 899	6 199	10 091	15 597	26 536	40 365	62 390	73 712	97 484	165 852	294 849
170	4 515	7 178	11 684	18 060	30 726	46 737	72 240	85 349	112 875	192 036*	341 398*
200	5 254	8 352	13 596	21 015	35 753	54 384	84 060	99 314	131 343	223 457*	397 257*
232	6 042	9 605	15 635	24 167	41 116	62 541	96 667	114 210	151 043	256 972*	456 840*
261	6 756	10 740	17 483	27 023	45 975	69 934	108 093	127 709	168 895*		
290	7 470	11 876	19 331	29 880	50 835	77 326	119 519	141 208	186 748*		
319	8 184	13 011	21 179	32 736	55 695	84 718	130 945				
340	8 701	13 833	22 518	34 805	59 214	90 071	139 218*				
370	9 440	15 007	24 430	37 760	64 241	97 718	151 038*				
406	10 326	16 417	26 724	41 305	70 274	106 895*	165 222*				
430	10 917	17 356	28 253	43 669	74 296*	113 012*	174 678*				
460	11 656	18 531	30 165	46 624	79 323*	120 659*					
493	12 469	19 823	32 268	49 875	84 853*	129 071*					
530	13 380	21 271	34 626	53 519*	91 054*	138 503*					
560	14 119	22 446	36 537	56 474*	96 081*	146 150*					
590	14 857	23 620	38 449	59 429*	101 108*	153 797*					
620	15 596	24 794	40 361	62 384*	106 136*						
638	16 039	25 499	41 508	64 157*							
670	16 827	26 752	43 547*	67 309*							
700	17 566	27 926	45 459*	70 264*							
725	18 182	28 905	47 052*	72 726*							

* = Carb/ Steel Design

Water Capacities Chart (USG/mm)

Calculation to ISO 4126-1 (December 1991) : 10% or 0.2 b overpressure (whichever is greater) and with Kd of 0.75

Size Orifice Section Pressure psig	1" x 1½" 0,906 in 0,644 in² Flow USG/mn	1¼" x 2" 1,142 in 1,024 in² Flow USG/mn	1½" x 2½" 1,457 in 1,667 in² Flow USG/mn	2" x 3" 1,811 in 2,576 in² Flow USG/mn	2½" x 4" 2,362 in 4,383 in² Flow USG/mn	3" x 5" 2,913 in 6,666 in² Flow USG/mn	4" x 6" 3,622 in 10,30 in² Flow USG/mn	5" x 8" 3,937 in 12,17 in² Flow USG/mn	6" x 8" 4,528 in 16,10 in² Flow USG/mn	8" x 10" 5,06 in 27,39 in² Flow USG/mn	10" x 14" 7,874 in 48,69 in² Flow USG/mn
7,5	30,2	47,9	78,0	121	205	312	482	570	754	1 282	2 280
15	42,6	67,8	110	171	290	441	682	806	1 066	1 814	3 224
30	63,2	101	164	253	430	655	1 012	1 196	1 581	2 690	4 782
40	73,0	116	189	292	497	756	1 168	1 380	1 826	3 106	5 522
50	81,6	130	211	327	556	845	1 306	1 543	2 041	3 473	6 174
60	89,4	142	231	358	609	926	1 431	1 691	2 236	3 804	6 763
70	96,6	154	250	386	657	1 000	1 546	1 826	2 415	4 109	7 305
80	103	164	267	413	703	1 069	1 652	1 952	2 582	4 393	7 809
100	115	184	299	462	786	1 195	1 847	2 183	2 887	4 911	8 731
120	126	201	327	506	861	1 309	2 024	2 391	3 162	5 380	9 564
145	139	221	360	556	946	1 439	2 225	2 628	3 476	5 914	10 513
170	151	239	390	602	1 025	1 558	2 409	2 846	3 764	6 403	11 384
200	163	260	423	653	1 111	1 690	2 613	3 087	4 082	6 945	12 347
232	176	280	455	703	1 197	1 821	2 814	3 325	4 397	7 480	13 299
261	187	297	483	746	1 269	1 931	2 985	3 526	4 664		
290	197	313	509	787	1 338	2 035	3 146	3 717	4 916		
319	206	328	534	825	1 403	2 135	3 300				
340	213	338	551	852	1 449	2 204	3 407				
370	222	353	575	888	1 511	2 299	3 554				
406	233	370	602	931	1 583	2 408	3 723				
430	239	381	620	958	1 629	2 479	3 831				
460	248	394	641	991	1 685	2 564					
493	256	408	663	1 026	1 745	2 654					
530	266	423	688	1 063	1 809	2 752					
560	273	434	707	1 093	1 860	2 829					
590	280	446	726	1 122	1 909	2 903					
620	288	457	744	1 150	1 957						
638	292	464	755	1 167							
670	299	475	773	1 196							
700	305	486	791	1 222							
725	311	494	805	1 244							

* = Carb/ Steel Design

Codification

1	2	3	4	5	6	7
63	W	2	C	25	A	A

1 Series: 63

– Spring loaded, semi nozzle, metal to metal seats

2 Materials:

– W : Carbon steel body / Stainless and carbon steel trim

– X : Stainless steel body / Stainless steel trim.

3 Valve Rating (Inlet X Outlet)

– 1: EN 1092-1 : PNI6 x PN1O
ASME B16.5 : 150 x 150

– 2: EN 1092-1 : PN40 x PN16
ASME B16.5 : 300 x 150

4 Spring Material:

– C : Alloy steel

– P : Stainless steel

5 Inlet Nominal Diameter (DN):

– 25 - 32 - 40 - 50 - 65 - 80 - 100 - 125 - 150 - 200 - 250

6 Flange Machining:

– A : ASME B16.5 Class 150 or 300

– P : EN 1092-1 PN 10 - 16 - 25 - 40

7 Options: (Alphabetical Order)

– A : None

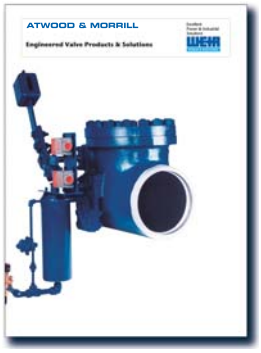
– F : Packed lifting lever

– O : Plain lifting lever

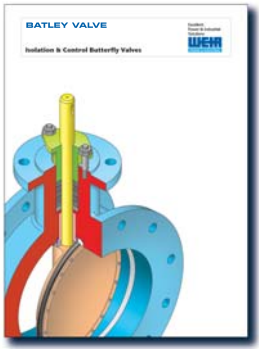
– V : Test gag

– Z : Specials

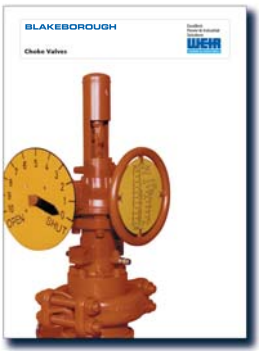
The information is given for guidance only and can be revised without previous notice.
They cannot replace an appropriate technical characteristic design



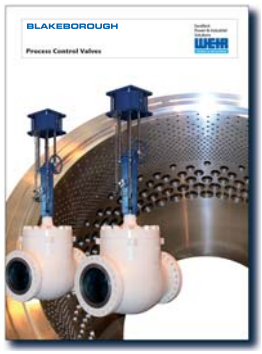
Atwood & Morrill
Engineered Valve Products & Solutions



Batley Valve
Isolation & Control Butterfly Valves



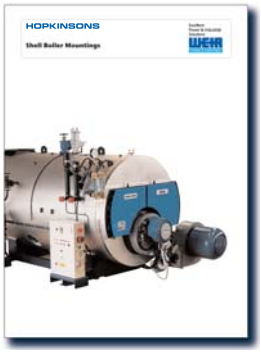
Blakeborough
Choke Valves



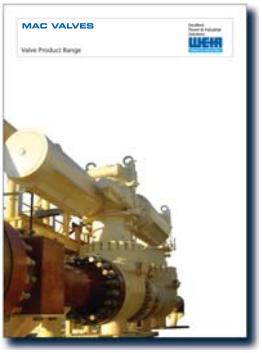
Blakeborough
Process Control Valves

Blakeborough
X-Stream™ Control Valves

Hopkinsons
Gate, Globe & Special Purpose Valves

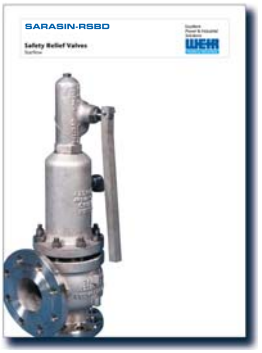


Hopkinsons
Shell Boiler Mountings



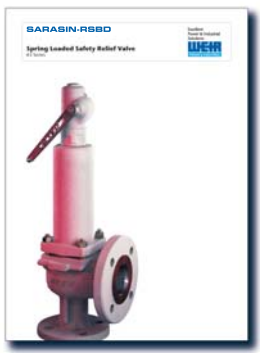
MAC Valves
Valve Product Range

MAC Valves
Rotary Gate & Dosage Valves



Sarasin-RSBD
Safety Relief Valves - Starflow

Sarasin-RSBD
Safety Relief Valves - Series 9



Sarasin-RSBD
Spring Loaded Safety Relief Valves - 63 Series

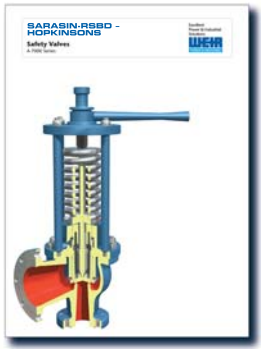
Sarasin-RSBD
Changeover Valves - Starvalve

Sarasin-RSBD
Pilot Operated Safety Relief Valves - 71, 76, 78 & 86 Series

Sarasin-RSBD
Tank Blanketing System Starblanketer - 77 Series

Sarasin-RSBD
Technical Information

Sarasin-RSBD
Pressure Safety Valves & Safety Devices



Sarasin-RSBD
Hopkinsons
Safety Valves - A7000 Series

Sebim
Nuclear Pilot Operated Safety Relief Valves

Tricentric
Triple Offset Butterfly Valves

Roto-jet Pump
High Pressure Pumps - Models 2100 & 2200

Roto-jet Pump
High Pressure Pumps - Models RG & RO

Roto-jet Pump
High Pressure Pumps - Models R11, API R11 & RD11

Wemco
Hydrogritter

Wemco Pump
Model CF Chop-Flow Pump

Wemco Pump
Wemco Hidrostal Pumps

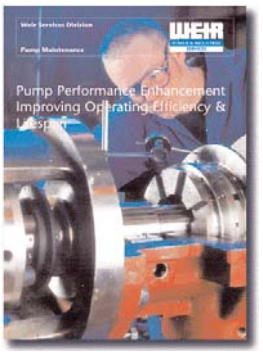
Wemco Pump
Wemco Submersible Pumps

Wemco Pump
Torque-Flow Pumps

Wemco Self Primer
Self Primer

Weir Services
Parts Supply and Overhaul of Steam Turbines

Weir Services
Repair and Overhaul Facilities



Weir Services
Pump Maintenance

Weir Services
Rotating Equipment Services

Weir Services
High Integrity Spare Parts

Weir Services
Hydroelectric Plant Rehabilitation

Weir Power & Industrial application information

Fossil Fuel Power Plant System

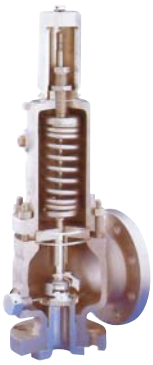
Multi Stage Flash Desalination Plant System

Combined Cycle Power Plant System

Spring Loaded Safety Relief Valves

Body in carbon steel, stainless steel, alloy and exotic materials; with bellows, lever and other accessories, to ensure suitability for all service conditions.

Starflow S5 (steam only)
ASME Section VIII Div. 1
(UV Stamp)
API Std 526
Full Nozzle - Enlarged guide
Inlet size : 1" to 12"
Rating : 150# to 2500#
Temp : up to 540°C



Starflow P3/P4/P5
ASME Section VIII Div. 1
(UV Stamp)
API Std 526
Full Nozzle
Inlet size : 1" to 12"
Rating : 150# to 2500#
Temp : -196°C up to +540°C

63 Series
ISO 4126
Semi-nozzle
Inlet size : ¾" to 10"
Rating : 150# to 300#
Temp : -196°C up to +330°C

9 Series
ASME Section VIII Div. 1
Portable SRV - Full nozzle
Screwed/Flanged/Welded
Size : ½" to 1 ½"
Rating : 150# to 2500#
Temp : -196°C up to +400°C

Starvalve
Changeover Valves
Low pressure drop COV
Standard COV
Combined valve with linkage system
Sizes : ½" - 10"
Pressure : up to 100 barg
Temp : -196 °C up to +427 °C
Mat : CS - SS

Pilot Operated Safety Relief Valves

The Sarasin-RSBD pilot-operated safety relief valve is an autonomous valve. It does not need any auxiliary source of power to operate. The advanced technology of Sarasin-RSBD valves has been adopted by the nuclear industry, French and U.S. Navies and by the Oil & Gas industries. It is complementary to the range of spring-loaded safety relief valves and covers a wide field of applications including severe conditions.

76 Series
Full nozzle

78 Series
Semi nozzle

86 Series
Full nozzle

Advantages of the Sarasin-RSBD Pilot-operated safety relief valve

- leak-free pilot
- on-off opening, fully open or closed (limited maintenance)
- perfect tightness (no production loss)
- perfect operation, even with capacities smaller than those rated for all types of fluids
- excellent repeatability and reliability
- adjustable blowdown (pop action)
- no pressure/flow limit
- with additional equipment (solenoid valve), the safety relief valve can be used as a discharge valve.

To meet the most varied requirements, Sarasin-RSBD selects the appropriate pilot detector for the safety relief valve required (semi or full nozzle, with bellows, piston etc.)

Gas - Liquid
Modulating action

Gas
Pop action

High temperature steam - Gas
Pop action

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