

Eshteal Arak Industrial Engineering Company is the only manufacturer of high-capacity rotary cup burners in the country, and these burners are used by all boiler companies in the country. Among the unique products produced by this company are power valves that are designed for saturated and superheated steam lines. This product was produced for the first time in the country in 2014 in the Mobarake steel complex and at a pressure of 70 bar It has been used successfully Eshteal Arak Industrial Engineering Company has been modernizing its production lines since 2003 and is currently equipped with more than 98 machines, 61 of which are CNC lathes and milling centers (referred to at the end), stepped into the field of producing products with modern sophisticated technology It should be mentioned that this company has succeeded in obtaining the knowledge-based badge on burners and valves during two consecutive periods, and in order to enhance the brand and satisfy customers, the necessary standards such as ISIRI 7595, ISIRI 7594, ISO 3834, ISO 9001:2015 and implemented 5S



The SV500 full lift, full nozzle safety valve is suitable for steam, air, inert industrial gas and non-hazardous liquid service. Valves are available in sizes ranging $\frac{3}{4}$ " , 1" , $1\frac{1}{4}$ " , $1\frac{1}{2}$ " , 2" and have a bronze body with female screwed connections and a stainless steel nozzle

Spring Safety valve
SFV500



ESHTEAL ARAK

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Manufacturer of burners, valves
and precision tools for steam boilers

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Spring Safety Valve

Type SFV 500

Description

The SV615 full lift, full nozzle safety valve is suitable for steam, air, inert industrial gas and non-hazardous liquid service. Valves are available in sizes ranging from DN20 to DN50 and have a bronze body with female screwed connections and a stainless-steel nozzle.

This valve has a closed bonnet with either a lifting lever and metal on metal seal.



Applications

The SV615 is suitable for the protection of steam or hot water boilers, generators, vessels, receivers and air compressors, autoclaves, downstream of pressure reducing valves and for general pressure relief applications.

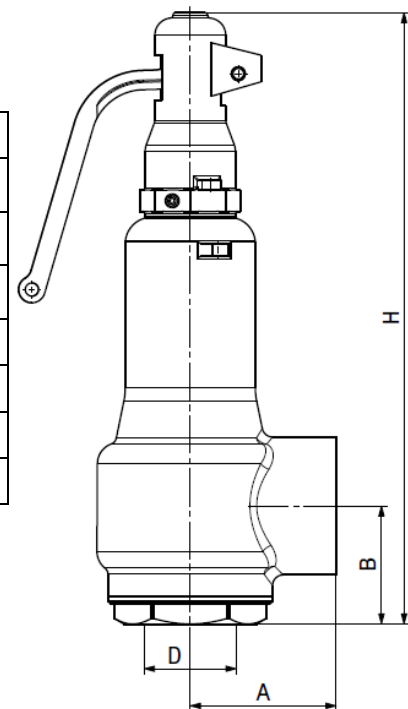
Pressure/temperature limits

body design		PN25	
Set pressure range	Maximum	$\frac{3}{4}$ " to $1 \frac{1}{4}$ "	18 bar g
		$1 \frac{1}{2}$ " and 2"	14 bar g
	Minimum		1.5 bar g
Temperature	Maximum	230°C	
	Minimum	-90°C	
Performance data	Overpressure	Steam	5%
		Gas	10%
		Liquid	10%
	Blowdown limits	Steam, gas	10%
Liquids		20%	
Maximum permitted backpressure		10% of set pressure	
Maximum cold hydraulic test pressure		37 bar	

Dimensions and pipe connections

Dimensions (approx.) in mm

Valve size	DN20	DN25	DN32	DN40	DN50	
Inlet thread female	¾"	1"	1 ¼"	1 ½"	2"	
Outlet thread female	1 ¼"	1 ½"	2"	2 ½"	3"	
Orifice area (mm ²)	314	452	661	1075	1662	
Orifice diameter D	20	24	29	37	46	
Center to face	Inlet B	44	48	58	67	80
	Outlet A	55	60	70	81	97
Height H	231	244	281	368	424	



- Inlet and Outlet Connections Screwed BSP (BS 21 parallel)

Capacities

● Saturated steam and Air

Capacities for saturated steam and Air according to EN ISO 4126.

Set pressure (bar g)	I Dry saturated steam Capacities (kg/h)				II Air at 15°C (60°F) Capacities (l/s)					
	Valve size in/out									
	DN20/DN32		DN25/DN40		DN32/DN50		DN40/DN65		DN50/DN80	
	I	II	I	II	I	II	I	II	I	II
1.5	328	115	472	165	690	241	1122	392	1734	606
2	392	138	564	199	824	291	1341	473	2073	732
3	519	186	747	267	1092	391	1776	635	2746	982
4	645	233	929	335	1358	490	2008	797	3414	1 233
5	771	280	1109	403	1622	590	2638	959	4079	1 483
6	896	328	1289	472	1886	690	3067	1 121	4741	1 734
7	1020	375	1469	540	2148	789	3494	1 283	5401	1 984
8	1145	422	1648	608	2410	889	3920	1 446	6060	2 235
9	1269	470	1827	676	2672	988	4345	1 608	6717	2 485
10	1393	517	2005	744	2933	1 088	4769	1 770	7374	2 736
11	1517	564	2184	812	3194	1 188	5194	1 932	8030	2 986
12	1641	612	2362	880	3454	1 287	5618	2 094	8685	3 237
13	1765	659	2540	948	3715	1 387	6042	2 256	9340	3 487
14	1888	706	2718	1 017	3975	1 487	---	2 418	---	3 738
15	2012	---	2897	---	4236	---	---	---	---	---
16	2136	801	3075	1 153	4496	1 686	---	---	---	---
17	2260	---	3253	---	4757	---	---	---	---	---
18	2384	896	3431	1 289	5018	1 885	---	---	---	---

• Water and Hot water

Capacities for water and hot water according to EN ISO 4126.

Set pressure (bar g)	I Water at 20°C Capacities (kg/h)				II Hot water at or above 100 °C Capacities (Kw)					
	Valve size in/out									
	DN20/DN32		DN25/DN40		DN32/DN50		DN40/DN65		DN50/DN80	
	I	II	I	II	I	II	I	II	I	II
1.5	10668	142.36	15356	204.92	22456	299.66	36521	487.36	56463	753.47
2	12318	171.96	17731	247.45	25930	361.86	42171	588.51	65198	909.86
3	15086	230.99	21717	332.51	31758	486.24	51649	790.81	79851	1222.62
4	17420	290.08	25076	417.57	36671	610.63	59639	993.11	92204	1535.38
5	19476	349.17	28036	502.63	40999	735.02	66678	1195.42	103088	1848.15
6	21335	408.26	30712	587.69	44913	859.41	73042	1397.72	112927	2160.91
7	23045	467.36	33173	672.75	48511	983.80	78895	1600.12	121975	2473.67
8	24636	526.45	35463	757.81	51861	1108.18	84342	1802.32	130397	2786.43
9	26130	585.54	37614	842.88	55006	1232.57	89458	2004.62	138307	3099.20
10	27544	644.63	39649	927.94	57982	1356.96	94297	2206.92	145788	3411.96
11	28888	703.72	41584	1013.00	60812	1481.35	98900	2409.22	152904	3724.72
12	30172	762.81	43433	1098.06	63516	1605.74	103298	2611.52	159703	4037.49
13	31405	821.90	45207	1183.12	66110	1730.12	107515	2813.82	166224	4350.25
14	32590	880.99	46913	1268.18	68605	1854.51	111574	3016.12	172499	4663.01
16	34840	999.17	50152	1438.30	73342	2103.29	---	---	---	---
18	36954	1117.36	53194	1608.42	77791	2352.06	---	---	---	---

Material

Item	Part name	Material
1	Body	Bronze
2	Lever housing	Bronze
3	Nozzle	Stainless steel
4	Disk	Stainless steel
5	Skirt	Brass
6	Lever	SG iron
7	Stem	Stainless steel
8	Stem guide	Brass
9	Adjustment screw	Brass
10	Spring end plate	Brass
11	Spring	Alloy steel
12	Spring end plate	Brass

