

AF-9EN

Features

1. Full bore safety valve of open type.
2. Large discharge capacity.
3. Due to lift lever mechanism, a discharge inspection can be manually performed at least 80% of working pressure.

Specifications

Model	AF-9EN		
Application	Steam, Air, Other non - dangerous fluids		
Nominal size	20A-100A	125A	150A
Working pressure	0.045-1.6MPa	0.045-1.25 MPa	0.045-1.0 MPa
	* According to P/T rating.		
Max. temperature	250°C		
Material	Body	Cast Iron	
	Spring chamber	Ductile Cast Iron	
	Valve	Stainless steel	
	Valve seat	Stainless steel	
Connection	Inlet: PN16, Outlet: PN10 EN1092-2		

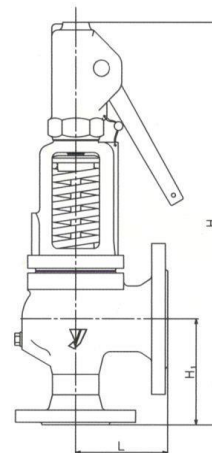
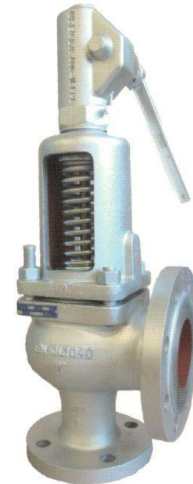
- Spring replacement does not need any other part replacement but gaskets, however, it requires training by Yoshitake. Only certified person is allowed to replace the spring.
- AF-9EN is not closed type. Please contact us for the product of closed type or for water application.
- Please contact us for any further information.

Spring Range

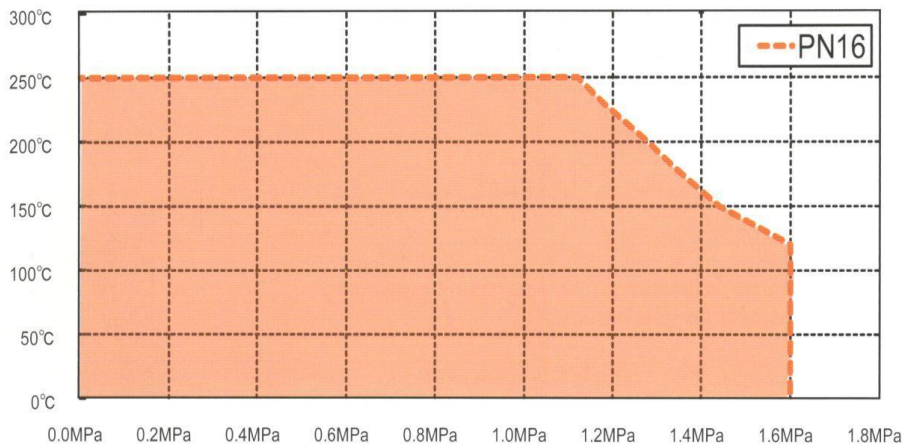
(MPa)			
(A)	(B)	(C)	(D)
0.045-0.068	0.066-0.10	0.095-0.14	0.13-0.19
(E)	(F)	(G)	(H)
0.18-0.26	0.25-0.36	0.35-0.50	0.48-0.63
(I)	(J)	(K)	(L)
0.6-0.8	0.75-1.0	0.95-1.25	1.2-1.6

Dimensions (mm) and Weights (kg)

Nominal size	Inlet dia. × Throat dia. × Outlet dia.	Flow area (mm ²)	Lift (mm)	Dimension (mm)			Flange		Weight (kg)
				L	H ₁	H	Inlet	Outlet	
20A	20×16×32	201	6±0.5	85	95	345	20A	32A	7.5
25A	25×20×40	314	7±0.5	95	105	395	25A	40A	9
32A	32×25×50	491	7±0.5	100	110	420	32A	50A	13
40A	40×32×65	804	7.5±0.5	115	130	495	40A	65A	19
50A	50×40×80	1257	6±0.5	125	145	550	50A	80A	25
65A	65×50×100	1964	7±0.5	140	150	660	65A	100A	37
80A	80×63×125	3117	9±0.5	155	170	710	80A	125A	52
100A	100×77×150	4657	11±1	175	180	810	100A	150A	77
125A	125×93×200	6793	13±1	215	220	860	125A	200A	90
150A	150×110×250	9503	15±1	225	245	990	150A	250A	140



Pressure and Temperature Rating



- This chart shows PT rating of PN16 for cast iron flanges according to EN 1092-2.
- AF-9EN can be used in orange region.

Certified Capacity Table

● For Steam (saturation temperature) <EN ISO 4126-1: 2004>

(kg/h)

Nominal size	Pressure (MPa)											
	0.045	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1
20A	115	164	268	357	446	535	623	711	798	886	974	1,060
25A	180	256	418	558	697	835	973	1,110	1,247	1,384	1,521	1,657
32A	282	401	654	872	1,090	1,306	1,521	1,736	1,950	2,165	2,378	2,590
40A	461	656	1,071	1,428	1,784	2,139	2,491	2,843	3,193	3,545	3,894	4,242
50A	721	1,026	1,674	2,233	2,790	3,344	3,895	4,445	4,993	5,542	6,089	6,631
65A	1,127	1,603	2,615	3,489	4,359	5,225	6,086	6,945	7,801	8,659	9,513	10,361
80A	1,788	2,545	4,150	5,537	6,918	8,292	9,658	11,021	12,381	13,742	15,098	16,444
100A	2,672	3,802	6,201	8,273	10,336	12,389	14,430	16,467	18,498	20,531	22,558	24,568
125A	3,897	5,546	9,045	12,067	15,077	18,072	21,049	24,019	26,982	29,948	32,904	35,837
150A	5,452	7,758	12,654	16,881	21,092	25,282	29,446	33,602	37,746	41,896	46,031	—

● For Air (20°C) <EN ISO 4126-1: 2004>

(kg/h)

Nominal size	Pressure (MPa)															
	0.045	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	
20A	185	258	426	573	720	866	1,013	1,159	1,306	1,452	1,599	1,746	1,892	2,185	2,478	
25A	289	404	666	895	1,124	1,353	1,582	1,811	2,040	2,269	2,498	2,727	2,956	3,414	3,872	
32A	451	631	1,042	1,400	1,758	2,116	2,474	2,832	3,190	3,548	3,906	4,264	4,622	5,338	6,054	
40A	739	1,033	1,706	2,292	2,878	3,464	4,051	4,637	5,223	5,810	6,396	6,982	7,568	8,741	9,913	
50A	1,156	1,615	2,667	3,583	4,500	5,416	6,333	7,250	8,166	9,083	9,999	10,916	11,833	13,666	15,499	
65A	1,806	2,524	4,166	5,598	7,031	8,463	9,895	11,327	12,759	14,191	15,624	17,056	18,488	21,352	24,217	
80A	2,866	4,005	6,612	8,885	11,158	13,431	15,704	17,977	20,250	22,523	24,796	27,069	29,342	33,887	38,433	
100A	4,281	5,984	9,879	13,275	16,671	20,067	23,463	26,859	30,254	33,650	37,046	40,442	43,838	50,630	57,422	
125A	6,245	8,729	14,410	19,364	24,317	29,271	34,224	39,178	44,131	49,085	54,038	58,992	63,945	—	—	
150A	8,737	12,212	20,159	27,089	34,018	40,948	47,878	54,807	61,737	68,666	75,596	—	—	—	—	

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