

# AF-10EN

- Full bore type    Lift type    **Safety valve**    Relief valve
- Safety relief valve    **Lever type**    Closed type    Dash-pot structure
- Handle type    Stainless    High pressure gas testing products
- Diaphragm    Non-leakage



## ■ Features

1. Full bore safety valve designed according to ISO4126-1: 2013.
2. Large discharge capacity and highly reliable operation.
3. Discharge inspection can be manually performed with the lever at 80% or more of the set pressure.

## ■ Specifications

Model	AF-10EN	
Structure	Open type with lever	
Application	Steam, Air, and Other non-dangerous gases *1	
Nominal size	20A x 32A 25A x 40A 32A x 50A 40A x 65A 50A x 80A 65A x 100A 80A x 125A 100A x 150A	
Working pressure	0.1 to 1.6MPa *2	
Maximum temperature	250 degrees C *2	
Material	Valve case	Ductile cast iron
	Valve, Valve seat	Stainless steel
Connection	EN PN16 flanged	

\*1 The valve cannot be used for liquid application.

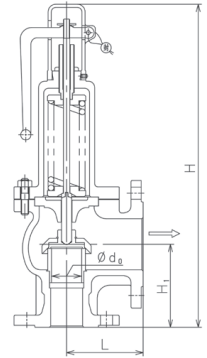
\*2 The relationship between working pressure and temperature as per EN1092-2.

## ■ Spring Range

A	B	C	D	E
0.1 – 0.15MPa	0.15 – 0.2MPa	0.2 – 0.25MPa	0.25 – 0.35MPa	0.35 – 0.45MPa
F	G	H	I	
0.45 – 0.65MPa	0.65 – 0.85MPa	0.85 – 1.2MPa	1.2 – 1.6MPa	

## ■ Pressure and Temperature Rating

According to EN1092-2		Temperature (°C)			
Material	PN	up to 120	150	200	250
Ductile cast iron	16	1.6MPa	1.55MPa	1.47MPa	1.39MPa



### ■ Dimensions (mm) and Weight (kg)

Nominal size (mm)	Inlet diameter x Outlet diameter	Throat diameter d0 (mm)	Flow area (mm <sup>2</sup> )	L	H1	H	Weight (kg)
20A	20 x 32	18.5	268	85	85	360	10
25A	25 x 40	23	415	100	100	375	11
32A	32 x 50	29.5	683	105	110	450	15
40A	40 x 65	36.5	1046	115	125	470	17
50A	50 x 80	46	1661	120	130	510	24
65A	65 x 100	59.5	2780	140	160	680	38
80A	80 x 125	73	4185	160	180	785	53
100A	100 x 150	91	6503	180	200	895	78

### ■ Certified Capacity Table

For steam (saturation temperature) <EN ISO 4126-1: 2013>

Nominal size (mm)	Pressure (MPa)												
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3
20A	224	338	451	564	676	787	899	1010	1120	1231	1341	1451	1560
25A	348	524	699	873	1047	1219	1392	1564	1735	1906	2077	2246	2416
32A	573	862	1151	1437	1723	2007	2291	2574	2856	3138	3418	3697	3977
40A	877	1321	1762	2202	2639	3074	3509	3942	4374	4806	5235	5663	6090
50A	1393	2098	2799	3497	4191	4882	5572	6259	6946	7632	8313	8993	9671
65A	2332	3512	4684	5852	7015	8172	9326	10477	11625	12774	13913	15051	16187
80A	3511	5286	7052	8811	10561	12302	14039	15772	17501	19229	20945	22658	24368
100A	5457	8215	10959	13691	16411	19116	21815	24508	27195	29881	32547	35208	37866

For air (20 °C) <EN ISO 4126-1: 2013>

Nominal size (mm)	Pressure (MPa)														
	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	353	539	724	910	1095	1280	1466	1651	1837	2022	2208	2393	2764	3135	
25A	548	835	1122	1409	1696	1983	2270	2557	2844	3132	3419	3706	4280	4854	
32A	902	1374	1847	2319	2792	3264	3737	4209	4682	5154	5627	6099	7044	7989	
40A	1381	2105	2828	3552	4276	4999	5723	6446	7170	7894	8617	9341	10788	12235	
50A	2193	3342	4491	5641	6790	7939	9088	10237	11386	12535	13684	14833	17132	19430	
65A	3671	5594	7518	9441	11364	13287	15211	17134	19057	20980	22903	24827	28673	32520	
80A	5527	8422	11317	14212	17108	20003	22898	25793	28689	31584	34479	37374	43165	48955	
100A	8588	13087	17586	22085	26584	31082	35581	40080	44579	49078	53577	58076	67073	76071	