宇明阀门集团
YUMING VALVE GROUP

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FOR MORE INFORMATION ABOUT OUR TECHNOLOGY,
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宇明阀门集团
YUMING VALVE GROUP

Harbor the world a Better Tomorrow

Warmly celebrate the 50 th anniversary of Yuming valve group

中 国 驰 名 商 标
China Well-known TrademarK

企业简介

Company Profile

宇明阀门集团有限公司位于"中国阀门之乡＂荥阳，北临黄河，毗邻S314省道，连霍高速、陇海铁路，交通便利，物流发达。公司始建于1972年，工业园区占地面积82000平方米。现有员工500余人，各类专业技术人员80余人，注册资金1亿元。已成为集研发、制造、销售于一体的专业阀门制造商。

2021年，宇明阀门出口营业额突破2000万美元；2022年，宇明阀门出口营业额突破2500万美元，并试图在未来做的更好。在2021年新增两条生产线，主要生产大型工程类阀门(DN4000以下)；并在2021年底投资郑州一阀流体科技有限公司，拥有生产设备600多台，其中机加工、试验机、测量设备300多台，操作人员约400多人，我们拥有多年的阀门制造经验，并且拥有最专业的团队。我们想强调的是，在宇明的研发部门有6名高级工程师和12名相关的主要工程师帮助CAD绘图和技术支持，另外4名专家在 QC部门。

除了优秀的生产团队，宇明阀门还拥有全面的销售管理，与全球客户打交道。95%的营业额来自出口俄罗斯、阿根廷、菲律宾、越南、印度尼西亚、哥伦比亚秘鲁、智利、瑞典、挪威、比利时、法国、德国、罗马尼亚、意大利、西班牙、土耳其、以色列、伊朗、埃及、南非、澳大利亚、马来西亚、泰国、新加坡、美国、香港、台湾和韩国，与中外朋友合作共赢，建立了牢固的合作关系，同时更结下了深厚的情谊，为宇明阀门的发展注入了持久的活力。

选择"宇明"，选择"信任"。

Yuming Valve Group Co., Ltd. is located in Xingyang, the "Hometown of Valves in China", facing the Yellow River to the north, adjacent to S314 Provincial Highway, Lianhuo Expressway and Longhai Railway, with convenient transportation and developed logistics. The company was founded in 1972, and the industrial park covers an area of 82,000 square meters. There are more than 500 employees, more than 80 professional and technical personnel of various types, and a registered capital of 100 million yuan. It has become a professional valve manufacturer integrating R&D, manufacturing and sales.

2021, Yuming valve export turnover exceeded 20 million US dollars.In 2022, Yuming valve export turnover exceed 25 million US dollars,and is trying to do more in the future. In 2021, two new production lines has added, mainly producing bigger size(up to DN4000) engineering valves; and at the end of 2021, we invested in Zhengzhou Yiva Fluid Technology Co., Ltd., and we have more than 600 production facilities, including more than 300 machining, testing machines, and measuring equipment. about 400 operators, we have many years of valve manufacturing experience, and have the most professional team. We would like to emphasize that there are 6 senior engineers and 12 related main engineers in Yuming's R&D department to help with CAD drawing and technical support, and the other 4 experts are in the QC department. ,

In addition to an excellent production team, Yuming Valve also has a comprehensive sales management to deal with global customers. And 95% of the turnover comes from exports to Russia, Argentina, the Philippines, Vietnam, Indonesia, Colombia, Peru, Chile, Sweden, Norway, Belgium, France, Germany, Romania, Italy, Spain, Turkey, Israel, Iran, Egypt, South Africa, Australia , Malaysia, Thailand, Singapore, the United States, Hong Kong, Taiwan and South Korea, and win-win cooperation with Chinese and foreign friends, established a deep cooperative relationship, and at the same time forged a stronger friendship, which injected lasting vitality into the development of Yuming.

Select"Yuming",select"Trust"

YUMING VALVE GROUP
Expert in Industry Fluid
System Control

企业资质

Enterprise Qualification

企业获得的资质和荣誉，
是对宇明集团过去取得成绩的肯定，
也是对宇明集团创造明日辉煌的鼓舞和鞭策！
向新的台阶迈进，
是宇明人顽强拼搏，
永远追求的信念！

Qualifications and honors obtained by the enterprise,
It is an affirmation of Yuming Group's achievements in the past,
It is also an encouragement and spur to Yuming Group to create a brilliant tomorrow!
to a new level,

YUMING VALVE GROUP

Expert in Industry Fluid System Control

铸件生产
Casting Production

YUMING VALVE GROUP

Expert in Industry Fluid
System Control

生产装备
Production equipment

拥有铸造、加工、焊接、热处理等先进的加工设备和专业化的生产车间，不断完善产品加工工艺，严格控制产品制造的每一道工序、每一个环节，精益求精，确保宇明阀门的优良品质。

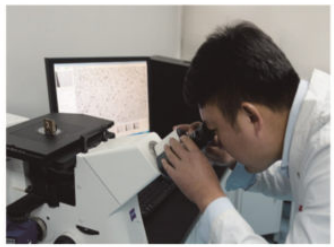
It has advanced processing equipment such as casting, machining, welding, heat treatment, and specialized production workshops, constantly improves product processing technology, strictly controls every process and every link of product manufacturing, and strives for excellence to ensure the excellent quality of Yuming valves.

检测中心
Test Center

- 冲击试验机
  Impact testing machine

为了提供高品质产品，
公司配置了先进的检测设备以及完善的检测手段，
建立了一支严格要求的品质管理队伍，
实现了从原材料检测，
生产过程检测，
产品及应用全过程的质量控制。

In order to improve the quality of products,
The company is equipped with advanced testing equipment and perfect testing methods,
Established a strict quality management team,
Realized from the detection of raw materials,
production process testing,
Quality control of the whole process of products and applications.



- 金相分析仪
  Metallographic Analyzer

- 直读光谱仪
  Direct Reading Spectrometer

- 试样制备机
  Sample preparation machine

YUMING VALVE GROUP

Expert Industry Fluid
System Control

安全阀
Safety valve

Safety valve is a pressure-bearing equipment, containers and pipelines on the overpressure protection device, when the medium pressure rises above the allowable value, the safety valve automatically opens, followed by the full amount of emissions to prevent the pressure from continuing to rise, when the pressure decreases to the specified value, the safety valve automatically closes.
When the pressure is reduced to the specified value, the safety valve automatically closes in time.

Safety valve design, manufacture and acceptance of technical standards in line with the requirements of GBT12243. Closed safety valve cover is closed, conducive to prevent the intrusion of dust and debris, to prevent the overflow of toxic and flammable media; open Anjin valve because the cover is open, conducive to reducing the temperature of the spring chamber, mainly for steam media pipelines and containers; with radiator safety valve is mainly applicable to the medium temperature of more than 300 ℃ working conditions. With wrench spring safety valve when the medium pressure reaches more than 75% of the opening pressure, can use the plate hand for manual opening.

Full-opening safety valve opening height ⩾ 1/4 flow channel diameter, large discharge.
Micro-opening safety valve opening height of ⩾ 120 flow channel diameter.

宇明阀门集团
YUMING VALVE GROUP

Safety valve series

安全阀简介 Introduction of tianzheng brand safety valve

安全阀是承压设备、压力容器和压力管线上的最佳超压保护装置，当介质压力升高超过允许值时，安全阀自动开启，继而全量排放，防止压力继续升高，当压力降低至规定值时，安全阀及时自动关闭，保证设备和管路的安全运行。

封闭式安全阀的阀盖是封闭的，利于防止灰尘和杂物侵入，防止有毒和易燃介质溢出，开放式安全阀由于阀盖敞开，利于降低弹簧腔室的温度，主要用于蒸汽介质管道及容器，带散热器安全阀主要适用于介质温度超过350℃的工况。

带板手弹簧式安全阀当介质压力达到开启压力的70%以上时，能利用扳手作手动开启(在保证安全的情况下)。

全启式安全阀开启高度≥1/4流道直径，微启式安全阀开启高度为1/20-1/40流道直径。

Yuming Brand safety valve, the best extra-pressure protection device takes care of press equipments, container and on-line pipe. When medium's pressure rises over the allowed pressure, safety valve will automatically open and fully discharge to protect the equipment from pressure going on rising and will automatically close when the pressure lowers to the setting pressure.

The valve bonnet of sealed safety valve prevents dust and foreign matters from invading. Meanwhile protect toxic combustible media from overflowing. The valve bonnet of open safety valve can favor the spring seat in lowering temperature inside of. It is mainly used for the pipeline and container with steam medium. The safety valve with a radiator is suitable for the medium with a temperature over 350℃.

The safety valve with a lever, it makes use of open manually, when the media pressure over 75% of setting pressure.

Full-lift safety valve opening height is more than one fourth times of the flow diameter. It has an advantage of discharging greatly. Low-lift safety valve opening height is between one twentieth to one fortieth times of the flow diameter.

安全阀型号编制方法 Method of compiling the types safety valve

阀门的型号参照机械部标准JB308-2004《阀门型号编制方法》编制，系由以下七个部分组成：

The types of valves are generally compiled in accordance with the standard of the ministry of machine-building industry, JB308-2004 "Method of Compiling the Types of Valves", which is composed of seven parts:

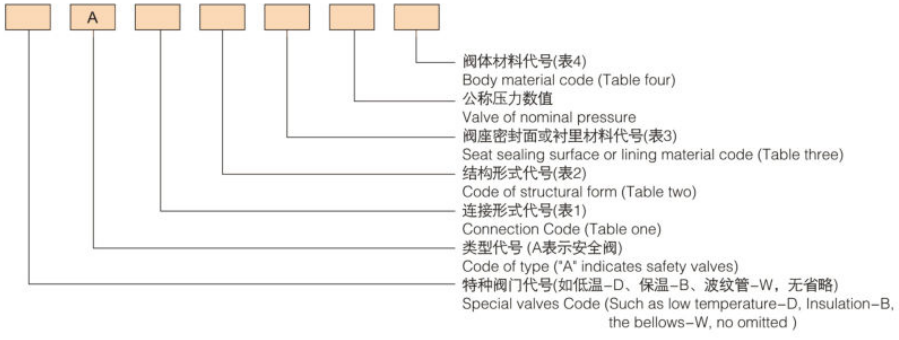


表1 Table one

连接形式 Connecting form	代号 Code
内螺纹 Internal thread	1
外螺纹 External thread	2
法兰 Flange	4
焊接 Welding	6
卡箍 Clamps	8

表2 Table two

		安全阀结构形式 Structural form of safety valve		代号 Code
弹簧式 Spring loaded type	封闭 Closed	带散热片 With radiator	全启式 Full lift type	0
		微启式 Low lift type		1
		全启式 Full lift type		2
	不封闭 Open	带扳手 With a lever	全启式 Full lift type	4
			双联弹簧微启式 Twin spring loaded low lift type	3
			微启式 Low lift type	7
			全启式 Full lift type	8
		带控制机构 With controls	全启式 Full lift type	6
			脉冲式 Pulse type	9

阀座密封面或衬里材料代号用汉语拼音字母表示，如表3所列。

The material codes of sealing surface of seat or lining are indicated by Chinese phonetic letters as they are listed in table three.

阀体材料代号用汉语拼音字母表示。如表4所列。

The material codes of body are indicated by Chinese phonetic letters as they are listed in table four.

表3 Table three

阀座密封面或衬里材料 Material of sealing surface of seat or lining	代号 Code	阀座密封面或衬里材料 Material of sealing surface of seat or lining	代号 Code
铜合金 Copper alloy	T	Cr13系列不锈钢 Stainless steel	H
橡胶 Rubber	X	渗氮钢 Nitriding steel	D
尼龙塑料 Nylon plastic	N	硬质合金 Stellite	Y
氟塑料 Fluoro plastics	F	衬胶 Lining rubber	J
锡基轴承合金(巴氏合金) Tin-base bearing alloy (Babbitt metal)	B	搪瓷 Enamel	C

表4 Table four

阀体材料 Body material	代号 Code	阀体材料 Body material	代号 Code
灰铸铁 Gray cast iron	Z	CF8(06Cr19Ni10)	P
WCB	C	CF8M(022Cr17Ni12Mo2)	R
1Cr5Mo、ZG1CrMo、WC6	I	WC9(12CrMoV)	V

注：由阀体直接加工的阀座密封面材料用“W”表示；当阀座和阀瓣密封面材料不同时，用低硬度材料代号表示。

Note: "W" indicates the material of sealing surface of seat which is processed directly together with the body. The material of sealing surface of seat is indicated by a code of low hardness material if it is different from the material of sealing surface of disc.

型号示例：A42Y-16C表示：弹簧封闭全启式安全阀，法兰连接，密封面材料硬质合金，公称压力1.6MPa阀体材料为碳素钢。

Examples: A42Y-16C indicates: The safety valve of closed spring loaded full bore, Connected with flange. The sealing surface material is stellite. The nominal pressure is PN 1.6MPa and the body material is carbon steel.

主要零部件材料 Main parts materials

零件名称 Part name \ 阀体材料代号 Body material code	零件材料 Part material				
	C	I	V	P	R
阀体 Body	WCB	WC6	WC9	CF8、CF3(304、304L)	CF8M、CF3M
阀座、阀瓣 Seat, Disc	20Cr13	304/17-4PH	12Cr1MoV/17-7PH	304	316L
反冲盘、导向套 Recoil plate, the guide sleeve	20Cr13	304	304	304	316L
阀盖 Bonnet	WCB	WCB	WCB	WCB/CF8	CF8M、CF3M
弹簧 Spring	50CrVA	50CrVA	30W4Cr2VA	50CrVA+PTFE	50CrVA+PTFE
阀杆 Stem	20Cr13	20Cr13	20Cr13	304	316
密封面 Sealing surface	Cr13不锈钢 Stainless steel	钴基硬质合金 Cobalt-based alloy	钴基硬质合金 Cobalt-based alloy	钴基硬质合金 Cobalt-based alloy	钴基硬质合金 Cobalt-based alloy

安全阀进出口法兰规定 Standards for safety valve inlet and outlet flange

法兰压力级按表5规定，进出口通径按表6规定。

Standards for flange pressure class is table five, Standards for inlet and outlet diameter is table six.

表5 Table five

安全阀公称压力PN Nominal pressure for safety valve	1.6	2.5	4.0	6.4	10.0	16.0	32.0
进口法兰压力级 Inlet flange pressure clas	1.6	2.5	4.0	6.4	10.0	16.0	32.0
出口法兰压力级 Outlet flange pressure class	1.6	1.6	1.6	4.0	4.0	4.0/16.0	6.4/16.0

表6 Table six

安全阀型式 Safety valve type	微启式 Low lift type	全启式 Full lift type
进口通径 Inlet diameter	同公称通径 Same as nominal diameter	
出口通径 Outlet diameter		比公称通径增大一级或一级以上 Bigger than the nominal diameter for one grade or more

安全阀性能规范(依据GB12241-2015和GB12243-2005标准)
Valve performance specifications (According to GB12241-2015 and GB12243-2005 standard)

性能规范 Performance Specifications \ 适用介质 Applicable media	进口侧强度试验 Import side strength test Ps(MPa)	密封试验压力 Sealing test pressure Pm(MPa)	启闭压差 Opening and closing pressure △P(MPa)	排放压力 Discharge pressure Pp(MPa)	开启高度 Opening height H(mm)
蒸汽用安全阀 Steam safety valve	1.5PN	90%Pk或回座压力最小值，取二者较小值 90%Pk or return pressure minimum, choose the smaller one	Pk≤0.4时为≤0.03 Pk＞0.4时为≤10%Pk	≤1.03Pk	全启式 Full lift type ≥1/4do
空气或其它气体使用安全阀 Using air or other gas valve		Pk≤0.3时Pk-0.03 Pk＞0.3时为90%Pk	Pk≤0.2时为≤0.03 Pk＞0.2时为≤15%Pk	≤1.1Pk	全启式 Full lift type ≥1/4do
水或其它液体使用安全阀 Using water or other liquids valve			Pk≤0.3时为≤0.06 Pk＞0.3时为≤20%Pk	≤1.2Pk	微启式 Low lift type ≥1/20do

一、介质为气体

1. 临界条件：$\frac{Po}{Pd} \leqslant (\frac{2}{K+1})^{\frac{K}{K-1}}$

$Ws=10CKPdA\sqrt{\frac{M}{ZT}}$ kg/h

2. 亚临界条件：$\frac{Po}{Pd} > (\frac{2}{K+1})^{\frac{K}{K-1}}$

式中Ws—安全阀的排放能力kg/h

K—排放系数，与安全阀结构有关，由制造厂提供；

也可按下述规定选取

全启式安全阀K=0.7～0.75

带调节圈的微启式安全阀K=0.4～0.5

不带调节圈的微启式安全阀K=0.25～0.35

Pd—安全阀的排放压力<绝压>、Pd=1.1Ps+0.1, MPa

Ps—安全阀的整定压力, MPa

Po—安全阀的出口侧压力<绝压>, MPa

A—安全阀最小排气截面积, mm^2

全启式安全阀, 即$h \geqslant \frac{1}{4}do$时, $A=\pi\frac{do^2}{4}$

微启式安全阀, 即$h \geqslant \frac{1}{20}do$时,

平面密封, $A=\pi Dh$；锥面密封，$A=\pi dohsin\psi$

式中h—安全阀的开启高度, mm

do—安全阀最小流道直径<阀座喉径>, mm

D—安全阀阀座口径, mm

ψ—锥形密封面的半锥角

C—气体特性系数, $C=520\sqrt{K\frac{2}{K+1}^{\frac{K+1}{K-1}}}$ ，见附表

K—气体绝热指数, K=Cp/Cv

M—气体摩尔质量, kg/kmol

T—气体的温度, K

Z—气体在操作温度压力下的压缩系数

二、介质为液体

$Ws=5.09KA\sqrt{\rho\triangle P}$ (kg/h)

式中 ρ—阀门入口侧温度下的液体密度，kg/m^3

△P—阀门前后压力降，MPa

△P=Pd-Po，Pd=1.2Ps+0.1，MPa

三、介质为饱和蒸汽

饱和蒸汽中含量不小于98%，最大过热度为10℃

1. 当Pd≤1MPa时

Ws=5.25KAPd kg/h

Pd=1.03Ps+0.1 MPa

2. 当1MPa＜Pd≤22 MPa时

$Ws=5.25KAPd(\frac{190.6Pd-6895}{229.2Pd-7315})$ kg/h

Pd=1.03Ps+0.1MPa

One、Gas as media

1. Critical Condition: $\frac{Po}{Pd} \leqslant (\frac{2}{K+1})^{\frac{K}{K-1}}$

$Ws=10CKPdA\sqrt{\frac{M}{ZT}}$ kg/h

2. Subcritical conditions: $\frac{Po}{Pd} > (\frac{2}{K+1})^{\frac{K}{K-1}}$

Wsthe discharge capacity of safety valve kg/h

K—Emission factor, related with structure of the safety valve, provided by the manufacturer

Also selected according to the following provisions

full lift type safety valve K=0.7～0.75

Low lift type safety valve with adjusting ring K=0.4～0.5

Low lift type safety valve without adjusting ring K=0.25～0.35

Pd—The discharge pressure of relief valve、Pd=1.1Ps+0.1, MPa

Ps—Setting pressure of relief valve, MPa

Po—The export side lateral pressure of relief valve, MPa

A—Minimum exhaust cross-sectional area, mm^2

Full lift type safty valve, when $h \geqslant \frac{1}{4}do$, $A=\pi\frac{do^2}{4}$

Low lift type safty valve, when $h \geqslant \frac{1}{20}do$,

Flat sealed, $A=\pi Dh$; Cone sealed, $A=\pi dohsin\psi$

h—Valve opening height, mm

do—Minimum flow path diameter <Seat throat diameter>, mm

D—Valve seat diameter, mm

ψ—Half cone angle of the conical sealing surface

C—Coefficient of gas properties, $C=520\sqrt{K\frac{2}{K+1}^{\frac{K+1}{K-1}}}$, See Schedule

K—Gas adiabatic index, K=Cp/Cv

M—Gas molar mass, kg/kmol

T—The temperature of the gas, K

Z—The gas compressibility under pressure of operating temperature

Two、Liquid as medium

$Ws=5.09KA\sqrt{\rho\triangle P}$ (kg/h)

ρ—Liquid density under the inlet-side temperature, kg/m^3

△P—Before and after the valve pressure drop, MPa

△P=Pd-Po，Pd=1.2Ps+0.1，MPa

There、Saturated steam as media

Content of saturated steam is not less than 98%, the highest degree of superheat is 10 ℃

1. When Pd≤1MPa

Ws=5.25KAPd kg/h

Pd=1.03Ps+0.1 MPa

2. When 1MPa＜Pd≤22 MPa

$Ws=5.25KAPd(\frac{190.6Pd-6895}{229.2Pd-7315})$ kg/h

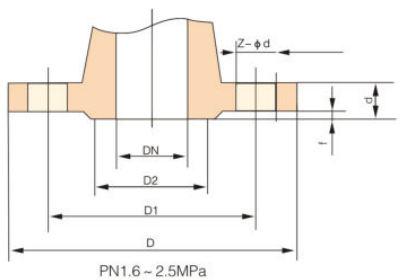
Pd=1.03Ps+0.1MPa

不同K值气体特性系数C值 Different K value gas characteristic coefficient C

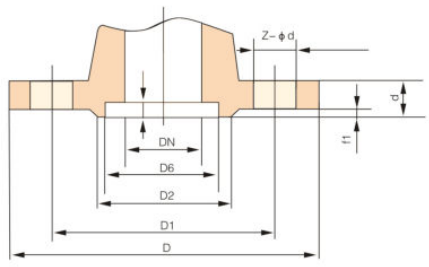
K	C	K	C	K	C	K	C
1.00	315	1.20	337	1.40	356	1.60	372
1.02	318	1.22	339	1.42	358	1.62	374
1.04	320	1.24	341	1.44	359	1.64	376
1.06	322	1.26	343	1.46	361	1.66	377
1.08	324	1.28	345	1.48	363	1.68	379
1.10	327	1.30	347	1.50	364	1.70	380
1.12	329	1.32	349	1.52	366	2.00	400
1.14	331	1.34	351	1.54	368	2.20	412
1.16	333	1.36	352	1.56	369		
1.18	335	1.38	354	1.58	371		

国标安全阀
National standard safety valve
宇明阀门集团 YUMING VALVE GROUP

依据JB/T79-94 On the basis of JB/T79-94



PN1.6～2.5MPa



PN4.0～16MPa

公称压力 PN(MPa)	尺寸 Dimension(mm)						
	DN	D	D1	D2	b	f	z-φd
1.6	15	95	65	45	14	2	4-14
	20	105	75	55	14	2	4-14
	25	115	85	65	16	2	4-14
	32	140	100	78	18	2	4-18
	40	150	110	85	18	3	4-18
	50	165	125	100	18	3	4-18
	65	185	145	120	20	3	4-18
	80	200	160	135	20	3	8-18
	100	220	180	155	22	3	8-18
	125	250	210	185	22	3	8-18
	150	285	240	210	24	3	8-23
	175	310	270	240	26	3	8-23
	200	340	295	265	26	3	12-23
	250	405	355	320	30	3	12-26
	300	460	410	375	30	4	12-26
	350	520	470	435	34	4	16-26
	400	580	525	485	36	4	16-30
	450	640	585	545	40	4	20-30
	500	715	650	608	44	4	20-34
	600	840	770	718	48	4	20-36
2.5	15	95	65	45	16	2	4-14
	20	105	75	55	16	2	4-14
	25	115	85	65	16	2	4-14
	32	140	100	78	18	2	4-18
	40	150	110	85	18	3	4-18
	50	165	125	100	20	3	4-18
	65	185	145	120	22	3	8-18
	80	200	160	135	22	3	8-18
	100	230	190	160	24	3	8-23
	125	270	220	188	28	3	8-26
	150	300	250	218	30	3	8-26
	175	330	280	248	32	3	12-26
	200	360	310	278	34	3	12-26
	250	425	370	332	36	3	12-30
	300	485	430	390	40	4	16-30
	350	555	490	448	44	4	16-34
	400	620	550	505	48	4	16-36

公称压力 PN(MPa)	尺寸 Dimension(mm)								
	DN	D	D1	D2	D6	f	f1	b	z-φd
4.0	15	95	65	45	40	2	3	16	4-14
	20	105	75	55	51	2	3	16	4-14
	25	115	85	65	58	2	4	16	4-14
	32	140	100	78	66	2	4	18	4-18
	40	150	110	85	76	3	4	18	4-18
	50	165	125	100	88	3	4	20	4-18
	65	185	145	120	110	3	4	22	8-18
	80	200	160	135	121	3	4	22	8-18
	100	235	190	160	150	3	4.5	24	8-23
	125	270	220	188	176	3	4.5	28	8-26
	150	300	250	218	204	3	4.5	30	8-26
	175	350	295	258	234	3	4.5	34	12-30
	200	375	320	282	260	3	4.5	38	12-30
	250	450	385	345	313	3	4.5	42	12-34
6.4	25	140	100	78	58	2	4	22	4-18
	32	155	110	82	66	2	4	24	4-23
	40	170	125	95	76	3	4	24	4-23
	50	180	135	105	88	3	4	26	4-23
	65	205	160	130	110	3	4	28	8-23
	80	215	170	140	121	3	4	30	8-23
	100	250	200	168	150	3	4.5	32	8-26
	125	295	240	202	176	3	4.5	36	8-30
	150	345	280	240	204	3	4.5	38	8-34
10.0	25	140	100	78	58	2	4	24	4-18
	32	155	110	82	66	2	4	24	4-23
	40	170	125	95	76	3	4	26	4-23
	50	195	145	112	88	3	4	28	4-26
	65	220	170	138	110	3	4	32	8-26
	80	230	180	148	121	3	4	34	8-26
	100	265	210	172	150	3	4	38	8-30
	125	315	250	210	176	3	4.5	42	8-34
	150	355	290	250	204	3	4.5	46	12-34
16.0	40	175	125	92	76	3	4	32	4-27
	50	215	165	132	88	3	4	36	8-25
	80	260	205	168	121	3	4	46	8-30
	100	300	240	200	150	3	4.5	48	8-34
	150	390	318	270	204	3	4.5	66	12-41

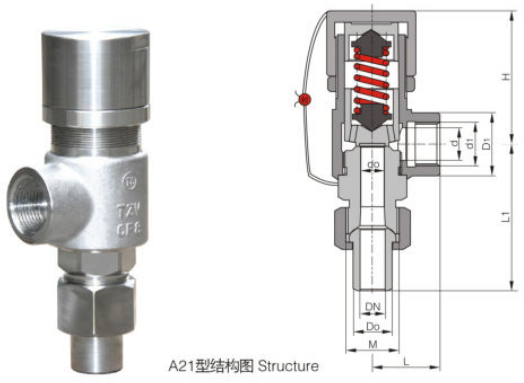
说明：如果采用其他法兰标准，订货时请说明。
Note: if adopt other flange standards, please specify when ordering.

A21H-16/25/40/64/100C、A21W-16/25/40/64/100P/R、A21R-16/25/40C/P/R型弹簧微启式外螺纹安全阀 Spring loaded low lift external thread safety valve

用途 Use

A21H型适用于工作温度≤200℃的空气、氨、石油气等介质的设备和管路上。A21W型适用于工作温度≤200℃含腐蚀性的气体或液体的设备和管路上。A21F型适用于工作温度≤200℃的液化气、石油气等设备和管路上，作为超压保护装置。

A21H type is suitable for the working temperature of 200℃ or less medium such as air, ammonia, liquefied petroleum gas (LPG) of equipment and piping. A21W type is suitable for the working temperature of 200℃ or less corrosive gas or liquid equipment and piping. A21F type is suitable for the working temperature of 200℃ or less liquefied petroleum gas, liquefied petroleum gas (LPG) and other equipment and piping, as the overpressure protection device.



A21型结构图 Structure

主要连接尺寸 Main connection size

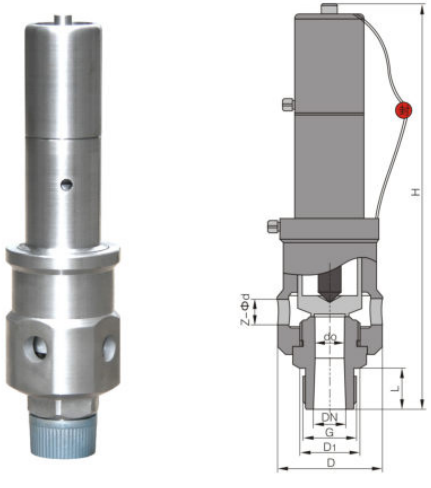
型号 Model	公称通径 DN(mm)	do	d	Do	M	d1	D1	L	L1	≈H
A21H/W/F-16C/P/R A21H/W/F-25C/P/R A21H/W/F-40C/P/R	15	12	15	20	M27×1.5	G1/2"	30	35	81	66
	20	16	20	25	M33×1.5	G3/4"	34	40	87	68
	25	18	25	31	M39×1.5	G1"	44	52	100	105
A21Y/W-64C/P/R A21Y/W-100C/P/R	15	10	15	25	M39×1.5	G1"	44	52	100	105
	20	10	20	31	M39×1.5	G1"	44	52	100	105
	25	12	25	31	M39×1.5	G1"	44	52	100	105

AQ-20型空压机安全阀 Air compressor safety valve

用途 Use

本阀门适用于工作温度≤200℃的空气，系空压机专用安全阀，当设备内压力超过允许值时，阀门自动开启，继而全量排放，当压力降低到规定值时，阀门自动关闭，保证设备安全运行。

The valves for the air temperature = 200 ℃, the system air compressor safety valve when the pressure inside the equipment exceeds the allowable value, the valve automatically opens, then the whole amount of emissions, when the pressure is reduced to a predetermined value, the valve automatically closes to ensure safe operation of equipment .



AQ系列结构图 Series structure

主要连接尺寸 Main connection size

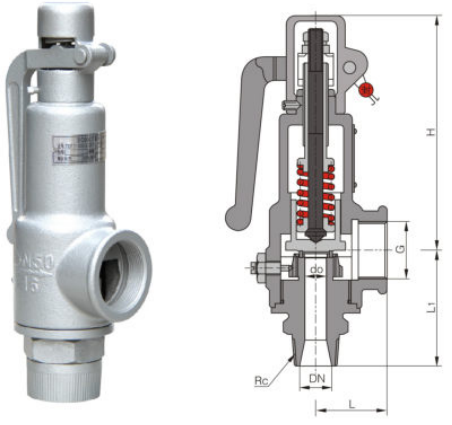
公称通径 DN(mm)	do	d	D	D1	z-Φd	L	≈H
20	17	G1"	62	44	4-17	25	220
25	20	M36×2	70	50	4-20	28	226

A27H-10、A27H-16/25/40/64C、A27Y-16/25/40/64P/R型弹簧微启式安全阀 Spring loaded low lift safety valve

用途 Use

A27H型适用于工作温度≤200℃的水、空气、蒸汽等介质的设备和管路上。A27Y-P/R型适用于工作温度≤200℃有腐蚀性介质的设备和管路上，作为超压保护装置。

A27H type suitable for=equipment and piping water, air, steam and other media at 200℃ operating temperature. A27Y-P/R is suitable for working temperatures=200℃ have the equipment and pipeline corrosion media, as overpressure protection device .



A27H型结构图 Sstructure

主要连接尺寸 Main connection size

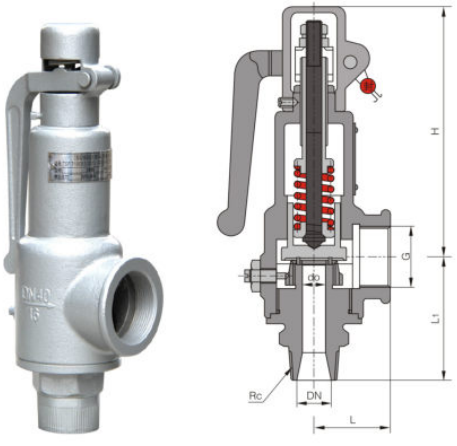
公称通径 DN(mm)	do	R	L	L1	G	≈H
15	10	1/2"	40	65	1/2"	140
20	15	3/4"	40	65	3/4"	140
25	20	1"	40	76	1"	155
32	25	1 1/4"	55	85	1 1/4"	177
40	32	1 1/2"	62	90	1 1/2"	215
50	40	2"	67	110	2"	225
65	50	2 1/2"	76	128	2 1/2"	283
80	65	3"	110	140	3"	370

A28H-10、A28H-16/25/40/64C、A28Y-16/25/40/64P/R型带手柄弹簧全启式安全阀 Spring loaded full lift safety valve with a lever

用途 Use

A28H/Y型适用于工作温度≤200℃的空气、蒸汽水、氮氢混合气等介质的设备和管路上。A28Y-P/R适用于工作温度≤200℃有腐蚀性介质的设备或管路上，作为超压保护装置。

A28H/Y type suitable for the equipment and pipeline operating temperature=200℃ air, water vapor, nitrogen and hydrogen mixed gas and other media. A28Y-P/R for temperature=200℃ have equipment or pipeline corrosive media, as the overpressure protection device.



A28Y型结构图 Structure

主要连接尺寸 Main connection size

公称通径 DN(mm)	do	R	L	L1	G	≈H
15	10	1/2"	37	65	3/4"	140
20	12	3/4"	40	67	1"	150
25	15	1"	45	78	1 1/4"	158
32	20	1 1/4"	60	90	1 1/2"	215
40	25	1 1/2"	67	105	2"	225
50	32	2"	78	115	2 1/2"	234
65	40	2 1/2"	110	140	3"	370
80	50	3"	110	156	4"	370

A41H-$\frac{16}{25}$C/P/R型弹簧微启封闭式安全阀 Closed spring loaded low lift type safety valve

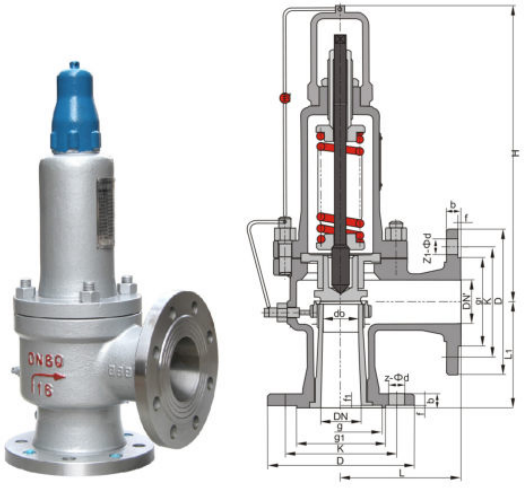
用途 Use

A41H型适用于工作温度≤300℃的石油、空气、水等介质的设备和管路上。A41Y-P/R型适用于工作温度≤200℃有腐蚀性介质的设备和管路上，作为超压保护装置。

A41H type suitable for=equipment and pipeline oil, air, water and other media at 300℃ operating temperature. A41Y-P/R is suitable for working temperatures=200℃ have the equipment and pipeline corrosion media, as overpressure protection device .

主要连接尺寸 Main connection size

公称通径 DN(mm)	do	DN'	L	L1	≈H
20	15	20	100	85	275
25	20	25	100	85	275
32	25	32	115	100	285
40	32	40	120	110	285
50	40	50	135	120	355
65	50	65	140	130	390
80	65	80	160	135	394
100	80	100	170	160	500
125	100	125	190	190	570
150	125	150	205	195	585
200	150	200	240	245	710
250	200	250	300	290	732



A41H-$\frac{16}{25}$型结构图 Structure

A41Y-$\frac{64}{100}$C/P/R型弹簧微启封闭式安全阀 Closed spring loaded low lift type safety valve

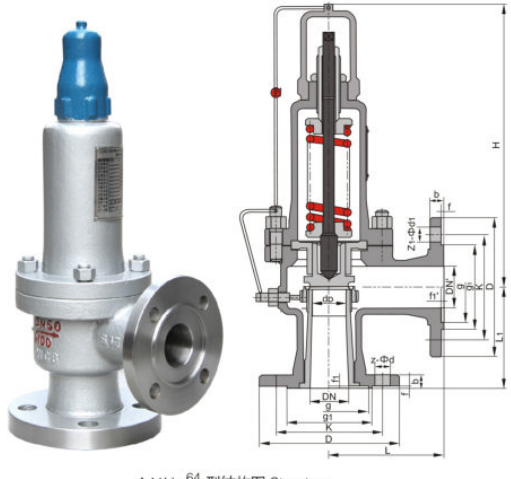
用途 Use

A41Y型适用于工作温度≤300℃的石油、空气、水等等介质的设备和管路上。A41Y-P/R型适用于工作温度≤200℃有腐蚀性介质的设备或管路上，作为超压保护装置。

A41Y is suitable for working temperatures=300℃ equipment and pipeline oil, air, water, etc. medium. A41Y-P/R is suitable for working temperatures=200℃ have equipment or pipeline corrosive media , as overpressure protection device .

主要连接尺寸 Main connection size

公称通径 DN(mm)	do	DN'	L	L1	≈H
20	15	20	100	100	283
25	20	25	100	100	283
32	25	32	115	105	286
40	32	40	135	120	345
50	40	50	160	130	380
65	50	65	160	150	512
80	65	80	160	150	518



A41H-$\frac{64}{100}$型结构图 Structure

A47H-$\frac{16}{25}$C型带扳手弹簧微启式安全阀 Spring loaded low lift safety valve with a lever

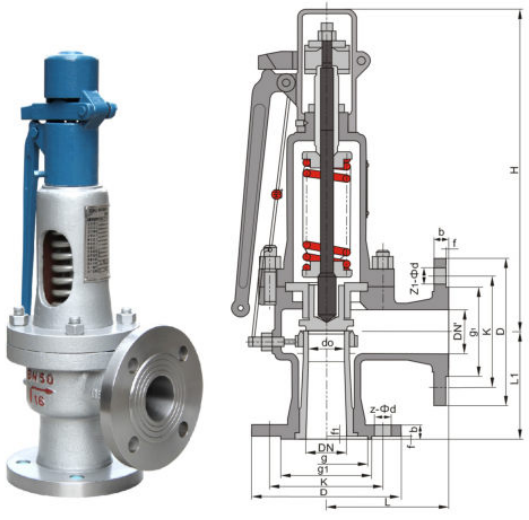
用途 Use

本阀门适用于工作温度≤350℃的蒸汽、空气等介质的设备和管路上，作为超压保护装置。

Equipment and piping for steam, air and other media of the valves for working temperature=350℃ as overpressure protection device .

主要连接尺寸 Main connection size

公称通径 DN(mm)	do	DN'	L	L1	≈H
20	15	20	100	85	298
25	20	25	100	85	298
32	25	32	115	100	310
40	32	40	120	110	315
50	40	50	135	120	377
65	50	65	140	130	415
80	65	80	160	135	420
100	80	100	170	160	568
125	100	125	190	190	624
150	125	150	205	195	636
200	150	200	240	245	730
250	200	250	300	290	750



A47H-$\frac{16}{25}$型结构图 Structure

A47Y-$\frac{64}{100}$C型带扳手弹簧微启式安全阀 Spring loaded low lift safety valve with a lever

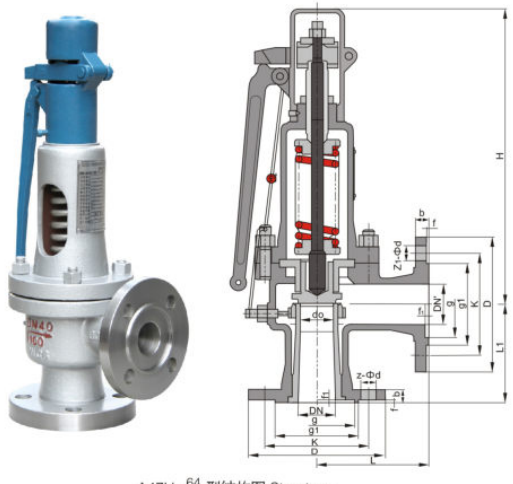
用途 Use

本阀门适用于工作温度≤350℃的蒸汽、空气等介质的设备和管路上，作为超压保护装置。

Equipment and piping for steam, air and other media of the valves for working temperature=350℃ as overpressure protection device .

主要连接尺寸 Main connection size

公称通径 DN(mm)	do	DN'	L	L1	≈H
20	15	20	100	100	301
25	20	25	100	100	301
32	25	32	115	105	310
40	32	40	135	120	366
50	40	50	160	130	401
65	50	65	160	150	535
80	65	80	160	150	540



A47H-$\frac{64}{100}$型结构图 Structure

A42Y-$\frac{16}{25}$C/P/R型弹簧全启封闭式安全阀 Closed spring loaded full lift type safety valve

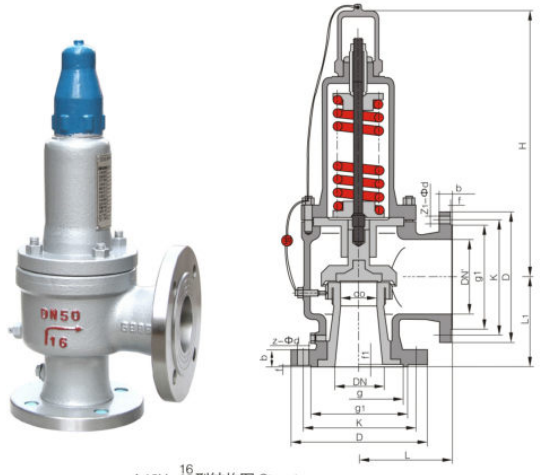
用途 Use

A42Y-C型适用于工作温度≤300℃的空气、石油气、液体等介质的设备和管路上。A42Y-P/R型适用于工作温度≤200℃有腐蚀性介质的设备和管路上，作为超压保护装置。

Equipment and pipeline A42Y-C is suitable for working temperatures=300℃ air, liquefied petroleum gas, liquid and other media. A42Y-P/R is suitable for working temperatures=200℃ have the equipment and pipeline corrosion media, as overpressure protection device.

主要连接尺寸 Main connection size

公称通径 DN(mm)	do	DN'	L	L_1	≈H
20	15	25	100	85	291
25	16	32	110	95	291
32	20	40	115	100	293
40	25	50	120	110	302
50	32	65	135	120	323
65	40	80	160	135	394
80	50	100	170	135	410
100	65	125	195	175	545
100	65	150	176	185	581
125	80	150	210	190	578
150	100	175	255	230	601
150	100	200	250	210	619
200	125	250	300	260	734
250	150	300	350	320	885
300	220	400	380	350	1243
350	250	500	500	450	1340
400	280	500	500	450	1340



A42Y-$\frac{16}{25}$型结构图 Structure

A42Y-$\frac{64}{100}$C/P/R型弹簧微启封闭式安全阀 Closed spring loaded low lift type safety valve

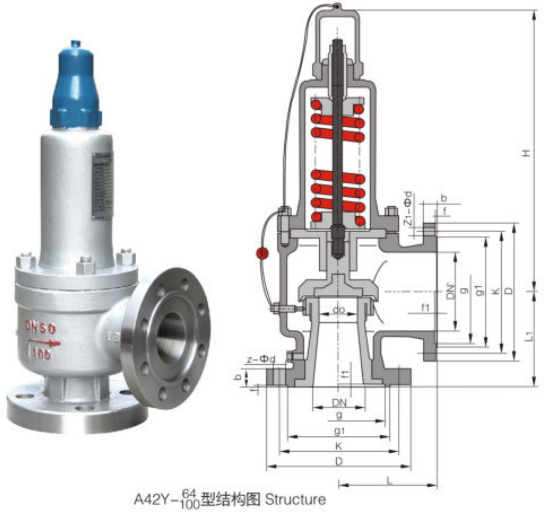
用途 Use

A42Y型适用于工作温度≤300℃的石油、空气、水等介质的设备和管路上。A42Y-P/R型适用于工作温度≤200℃有腐蚀性介质的设备或管路上，作为超压保护装置。

A42Y is suitable for working temperatures=300℃ equipment and pipeline oil, air, water and other media. A42Y-P/R is suitable for working temperatures=200℃ have equipment or pipeline corrosive media, as overpressure protection device.

主要连接尺寸 Main connection size

型号 Model	公称通径 DN(mm)	do	DN'	L	L_1	≈H
A42Y-64C/P/R A42Y-100C/P/R	20	12	25	100	100	288
	25	16	32	110	105	288
	32	20	40	130	110	300
	40	25	50	135	120	305
	50	32	65	160	130	392
	65	40	80	160	150	490
	80	50	100	175	160	498
	100	65	125	220	200	570
	100	65	150	220	200	610
	150	100	200	285	260	701



A42Y-$\frac{64}{100}$型结构图 Structure

A48Y-$\frac{16}{25}$C型带扳手弹簧全启式安全阀 Spring loaded full lift safety valve with a lever

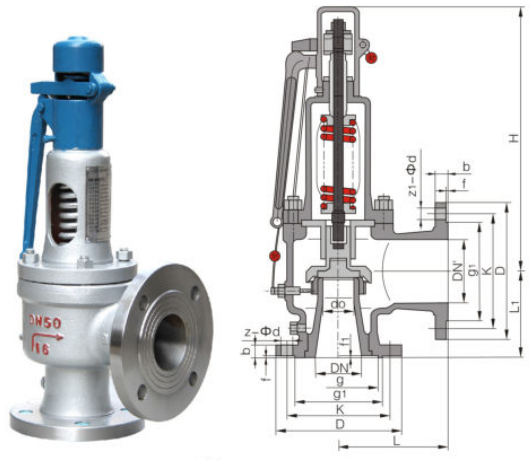
用途 Use

A48Y型适用于工作温度≤350℃的蒸汽、空气等介质的设备和管路上，作为超压保护装置。

A48Y is suitable for working temperatures=350℃ equipment and piping for steam, air and other media, as overpressure protection device.

主要连接尺寸 Main connection size

公称通径 DN(mm)	do	DN'	L	L_1	≈H
20	15	25	100	85	306
25	16	32	110	95	309
32	20	40	115	100	310
40	25	50	120	110	321
50	32	65	135	120	338
65	40	80	160	135	423
80	50	100	170	135	435
100	65	125	195	175	579
125	80	150	210	190	623
150	100	175	255	230	643
150	100	200	250	210	680
200	125	250	300	260	764
250	150	300	350	320	926
300	220	400	380	350	1246
350	250	500	500	450	1490
400	280	500	500	450	1490



A48Y-$\frac{16}{25}$型结构图 Structure

A48Y-$\frac{64}{100}$C型带扳手弹簧全启式安全阀 Spring loaded full lift safety valve with a lever

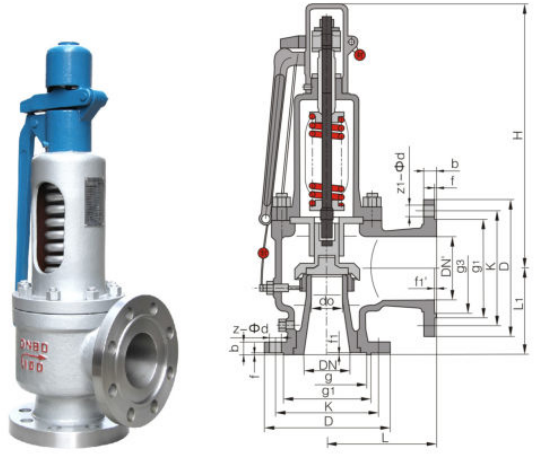
用途 Use

A48Y型适用于工作温度≤350℃的蒸汽、空气等介质的设备和管路上，作为超压保护装置。

A48Y is suitable for working temperatures=350℃ equipment and piping for steam, air and other media, as overpressure protection device.

主要连接尺寸 Main connection size

型号 Model	公称通径 DN(mm)	do	DN'	L	L_1	≈H
A48Y-64C A48Y-100C	20	12	25	100	100	305
	25	16	32	110	105	305
	32	20	40	130	110	318
	40	25	50	135	120	323
	50	32	65	160	130	415
	65	40	80	160	150	531
	80	50	100	175	160	541
	100	65	125	220	200	590
	150	100	200	285	260	735
	200	125	250	300	321	1025



A48Y-$\frac{64}{100}$型结构图 Structure

A44Y-$\frac{16}{25}$C/P/R型带扳手弹簧全启封闭式安全阀 Spring loaded full lift closed safety valve with a lever

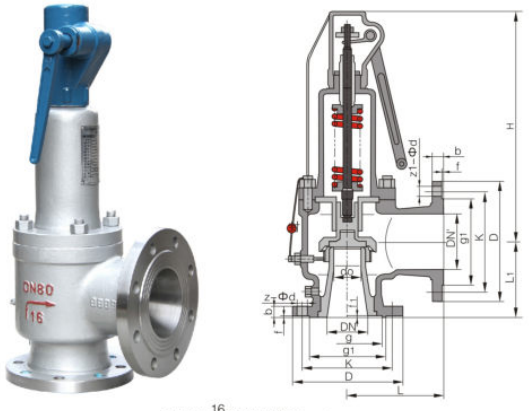
用途 Use

A44Y型适用于工作温度≤300℃的空气、蒸汽、石油等介质的设备和管路上，A44Y-P/R型适用于工作温度≤200℃有腐蚀性介质的设备上，作为超压保护装置。

Equipment and pipeline A44Y is suitable for working temperatures=300℃ air, steam, oil and other media, A44Y-P/R is suitable for the working temperature=corrosive media devices 200℃, as the overpressure protection device.

主要连接尺寸 Main connection size

公称通径 DN(mm)	do	DN'	L	L_1	≈H
20	15	25	100	85	307
25	16	32	110	95	309
32	20	40	115	100	311
40	25	50	120	110	320
50	32	65	135	120	340
65	40	80	160	135	426
80	50	100	170	135	438
100	65	125	195	175	580
125	80	150	210	190	623
150	100	175	255	230	643
150	100	200	250	210	680
200	125	250	300	260	764
250	150	300	350	320	926
300	220	400	380	350	1263
350	250	500	500	450	1490
400	280	500	500	450	1490



A44Y-$\frac{16}{25}$型结构图 Structure

A44Y-$\frac{64}{100}$C/P/R型带扳手弹簧全启封闭式安全阀 Spring loaded full lift closed safety valve with a lever

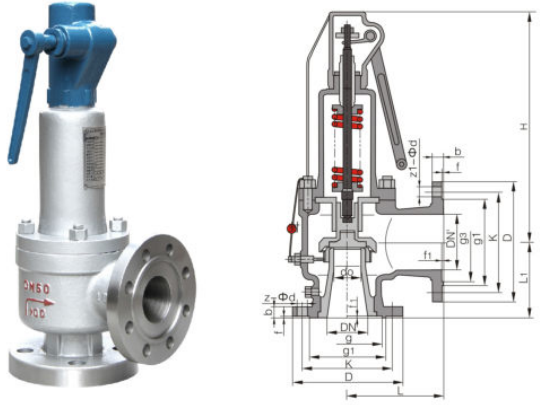
用途 Use

A44Y-C型适用于工作温度≤300℃的空气、蒸汽、石油等介质的设备和管路上，A44Y-P/R型适用于工作温度≤200℃有腐蚀性介质的设备上，作为超压保护装置。

Equipment and pipeline A44Y-C is suitable for working temperatures=300℃ air, steam, oil and other media, A44Y-P/R is suitable for working temperatures=200℃ have corrosive media on the device, as the overpressure protection devices.

主要连接尺寸 Main connection size

型号 Model	公称通径 DN(mm)	do	DN'	L	L_1	≈H
A44Y-64C A44Y-64P A44Y-64R A44Y-100C A44Y-100P A44Y-100R	20	12	25	100	100	306
	25	16	32	110	105	306
	32	20	40	130	110	325
	40	25	50	135	120	330
	50	32	65	160	130	421
	65	40	80	160	150	535
	80	50	100	175	160	545
	100	65	125	220	200	595
	150	100	200	285	260	706
	200	125	250	300	321	1025



A44Y-$\frac{64}{100}$型结构图 Structure

A37H-$\frac{16}{25}$C, A38Y-$\frac{16}{25}$C, A43H-$\frac{16}{25}$C双联弹簧式安全阀 Twin spring loaded lift type safety valve

用途 Use

本阀门适用于工作温度≤350℃的蒸汽、空气等介质的设备和管路上。当设备和管路内压力超过允许值时，阀门自动开启，继而全量排放，当压力降低到规定值时，阀门自动关闭，保证设备和管路的安全运行。

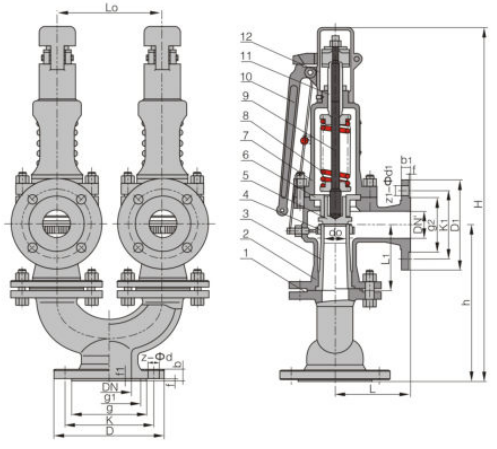
说明：该阀门是在一个Y型接头上装设两个同样型号规格的安全阀，其公称通径是指Y型接头进口通径，组合情况如下：

主要部件材料说明：A38Y、A43H、A37H型安全阀三通材料为WCB外，其余零件的材料均和A47H、A48Y型弹簧式安全阀相同。

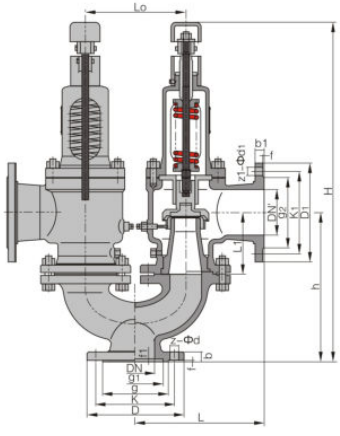
The valves for working temperature=350℃ equipment and piping for steam, air and other media. When the pressure inside the equipment and piping exceeds the allowable value, the valve automatically opens, then the whole amount of emissions, when the pressure is reduced to a predetermined value, the valve automatically closes to ensure the safe operation of equipment and piping.

Note: The valve is installed on a Y -connector valve two identical model specifications, the nominal diameter is the Y-connector inlet diameter, the combination is as follows:

The main component materials description: A38Y, A43H, A37H -type material is WCB, the remaining parts of the material are same as A47H, A48Y spring -loaded safety valve .



A37H、A43H型结构图 Structure



A38Y型结构图 Structure

主要连接尺寸 Main connection size

型号	DN	L	h	Lo	DN'	do	H
A37H-16C 25 40	50	115	225	165	32	2×25	310
	80	140	310	205	65	2×50	415
	100	160	355	255	80	2×65	420
	125	170	400	275	100	2×80	540
	150	190	440	300	125	2×100	625
A38Y-16C 25 40	50	198	225	165	40	2×20	310
	80	230	295	190	65	2×32	335
	100	293	370	265	80	2×40	420
	150	343	400	275	125	2×65	555
A43H-16C 25 40	50	115	225	165	32	2×25	310
	80	135	295	190	50	2×40	380
	100	160	355	255	80	2×65	420
	125	170	400	275	100	2×80	540
	150	190	440	300	125	2×100	625

A37H型 公称通径DN(mm)	相应的A47Y型 Corresponding A47Y type 公称通径DN(mm)
50	32
80	65
100	80
125	100
150	125

A38Y型 公称通径DN(mm)	相应的A48Y型 Corresponding A48Y type 公称通径DN(mm)
50	32
80	50
100	65
150	100

A43H型 公称通径DN(mm)	相应的A47H型 Corresponding A47H type 公称通径DN(mm)
50	32
80	50
100	80
125	100
150	125

A42Y-$\frac{160(220)}{320(250)}$C/P/R型弹簧全启封闭式高压安全阀 Spring loaded full lift closed high pressure safety valve

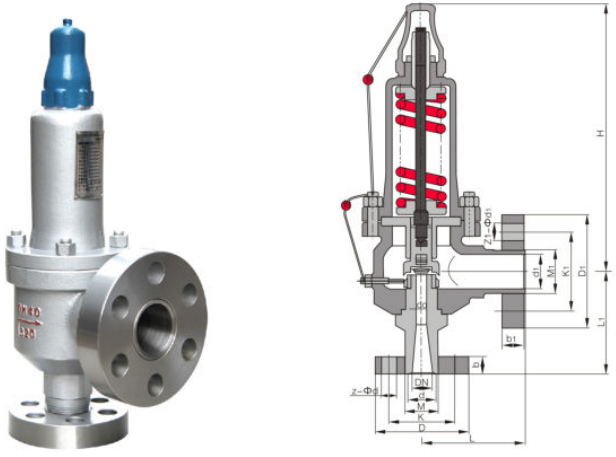
用途 Use

A42Y-160/320型适用于工作温度≤300℃的空气、氮氢混合气等介质的设备和管路上。A42Y-160P/R、A42Y-320P/R型适用于工作温度≤200℃有腐蚀性气体的设备和管路上，作为超压保护装置。

连接法兰按JB/T2769-2008的标准。

Equipment and pipeline A42Y-160/320 is suitable for working temperatures=300℃ air, nitrogen and hydrogen mixed gas and other media. A42Y-160P/R, A42Y-320P/R is suitable for working temperatures=200℃ have the equipment and pipeline corrosive gases, as overpressure protection device.

Flange connecting according to JB/T2769-2008 standards.



A42Y-160/320型结构图 Structure

主要连接尺寸 Main connection size

型号 Model	公称通径 DN(mm)	do	d'	M	D	K	z-Φd	b	d1	C	M1	D1	K1	z1-Φd	b1	L1	L	≈H
A42Y-$\frac{160}{220}$	15	8	20	M24×2	95	60	3-18	20	29	37	M42×2	115	80	4-18	22	95	100	280
	20	10	27	M33×2	105	68	3-18	20	29	37	M42×2	115	80	4-18	22	95	100	280
	25	12	28	M36×2	110	75	3-18	20	40	47	M52×2	165	115	6-26	28	125	125	314
	32	15	37	M42×2	115	80	4-18	22	50	59	M64×3	165	115	6-26	32	150	150	390
	40	20	47	M52×2	165	115	6-26	28	65	74	M80×3	200	145	6-29	40	165	165	495
	50	25	59	M64×3	165	115	6-26	32	80	94	M100×3	225	170	6-33	45	180	180	510
A42Y-$\frac{250}{320}$	15	8	27	M33×2	105	68	3-18	20	29	37	M42×2	115	80	4-18	22	95	100	280
	20	10	32	M36×2	110	75	3-18	22	29	37	M42×2	115	80	4-18	22	95	100	280
	25	12	35	M42×2	115	80	4-18	22	40	47	M52×2	165	115	6-26	28	125	125	314
	32	14	41	M48×2	135	95	4-22	25	50	59	M64×3	165	115	6-26	32	150	150	390
	40	18	58	M64×3	165	115	6-26	32	65	74	M80×3	200	145	6-29	40	165	165	495
	50	23	70	M80×3	200	145	6-29	40	80	94	M100×3	225	170	6-33	45	180	180	510
A42Y-400	32	15	41	M48×2	135	95	4-22	25	50	59	M64×3	165	115	6-26	32	150	150	397

A41Y-$\frac{160}{320}$C/P/R型弹簧全启封闭式高压安全阀 Spring loaded full lift closed high pressure safety valve

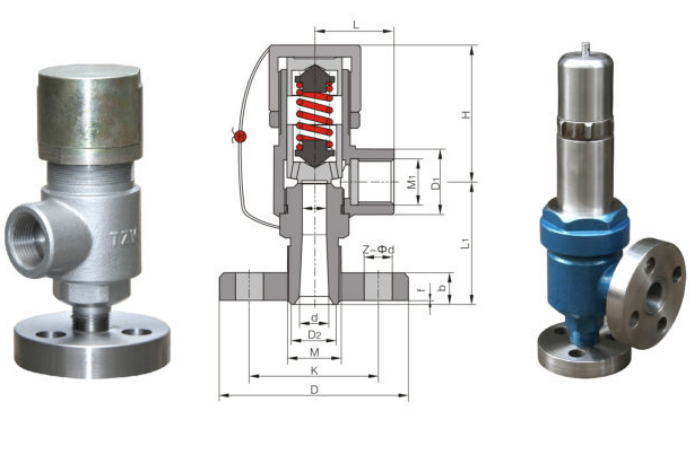
用途 Use

A41Y-160/320型适用于工作温度≤300℃的空气、氮氢混合气、水等介质的设备和管路上。A41Y-160P/R、A41Y-320P/R型适用于工作温度≤200℃有腐蚀性气体或液体介质的设备和管路上，作为超压保护装置。

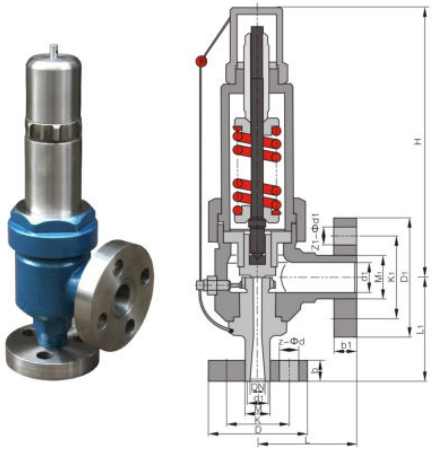
连接法兰按JB/T2769-2008的标准。

A41Y-160/320 is suitable for working temperatures=300℃ air, nitrogen and hydrogen mixed gas, water and other media. A41Y-160P/R, A41Y-320P/R is suitable for working temperatures=200℃ have the equipment and pipeline corrosive gas or liquid medium, as overpressure protection device.

Flange connecting according to JB/T2769-2008 standards.



A41Y-160 (单法兰Single flange)型结构图 Structure



A41Y-160/320型结构图 Structure

主要连接尺寸 Main connection size

型号 Model	公称通径 DN(mm)	do	d'	M	D	K	z-Φd	b	d1	C	M1	D1	K1	z1-Φd	b1	L1	L	≈H
A41Y-160 C/P/R (单法兰 Single flange)	15	8		M24×2	95	60	3-18	20	-	-	G1"	45	-	-	-	50	65	108
	20	10		M33×2	105	68	3-18	20	-	-	G1"	45	-	-	-	50	65	108
	25	12		M36×2	110	75	3-18	20	-	-	G1"	45	-	-	-	50	65	108
A41Y-$\frac{160}{220}$ C/P/R	15	8	20	M24×2	95	60	3-18	20	29	37	M42×2	115	80	4-18	22	95	100	280
	20	10	28	M33×2	105	68	3-18	20	29	37	M42×2	115	80	4-18	22	95	100	280
	25	12	29	M36×2	110	75	3-18	20	29	47	M42×2	115	80	4-18	22	95	100	280
	32	15	43	M42×2	115	80	4-18	22	50	59	M64×3	165	115	6-26	32	130	135	285
	40	20	47	M52×2	165	115	6-26	28	65	74	M80×3	200	145	6-29	40	165	165	495
	50	25	59	M64×3	165	115	6-26	32	80	94	M100×3	225	170	6-33	45	180	180	510
A41Y-$\frac{250}{320}$ C/P/R	15	8	27	M33×2	105	68	3-18	20	29	37	M42×2	115	80	4-18	22	95	100	280
	20	10	32	M36×2	110	75	3-18	20	29	37	M42×2	115	80	4-18	22	95	100	280
	25	12	35	M42×2	115	80	4-18	22	29	47	M42×2	115	80	4-18	22	95	100	280
	32	14	41	M48×2	135	95	4-22	25	50	59	M64×3	165	115	6-26	32	130	135	285
	40	18	58	M64×3	165	115	6-26	32	65	74	M80×3	200	145	6-29	40	165	165	495
	50	23	70	M80×3	200	145	6-29	40	80	94	M100×3	225	170	6-33	45	180	180	510

A61$^{H}_{Y}{}^{160}_{320}$弹簧微启式安全阀 Spring loaded low lift safety valve

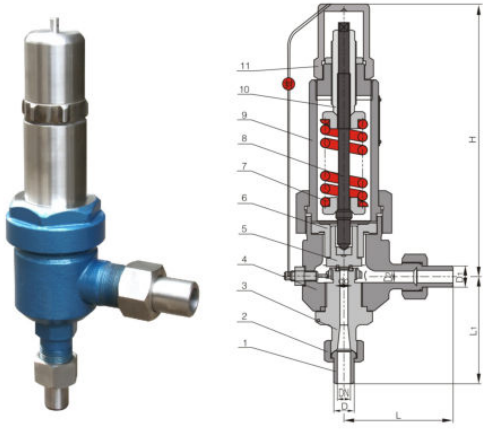
用途 Use

A61$^{H}_{Y}$-160，A61$^{H}_{Y}$-320适用于工作温度≤200℃的空气、氨、石油气等介质的设备和管路上，A61Y-160P，A61Y-320P型适用于温度≤200℃有腐蚀性的气体或液体的设备和管路上，作为超压保护装置。

A61$^{H}_{Y}$-160, A61$^{H}_{Y}$-320 are suitable for temperature=200℃ equipment and piping air, ammonia, liquefied petroleum gas and other media, A61Y-160P, A61Y-320P is suitable for temperature = 200 ℃ corrosive gases or liquids equipment and piping , as overpressure protection device.

主要零部件材料 Main parts materials

序号 No.	零件名称 Name	材料	
		A61$^{H}_{Y}$-C	A61Y-P
1	接头 Connector	20	304
2	接头螺母 Connector nut	35	304
3	阀座 Seat	2Cr13	304
4	阀体 Body	WCB	CF8
5	阀瓣 Disc	2Cr13	304
6	导向套 Guide sleeve	2Cr13	304
7	弹簧 Spring	50CrVA	50CrVA包覆氟塑料
8	阀杆 Stem	2Cr13	304
9	阀盖 Bonnet	WCB	304
10	调节螺杆 Adjustment screw	45	2Cr13
11	阀帽 Bonnet	WCB	CF8
密封面材料 Sealing surface material		"Y" 型堆焊Co基硬质合金, "H" 型堆焊D507 "Y" -type cladding Co-based alloy , "H" type welding D507	



A61Y-320P/320型结构图 Structure

主要连接尺寸 Main connection size

公称压力 PN(MPa)	公称通径 DN(mm)	尺寸 Dimension(mm)						
		do	D	D1	D2	L	L1	H
16	10	6	17	23	34	150	135	280
	15	8	24	23	34	150	140	280
	20	10	28	23	34	150	140	280
	25	12	34	23	34	150	145	280
32	10	6	17	23	34	150	135	280
	15	8	24	23	34	150	140	280
	20	10	28	23	34	150	140	280
	25	12	34	23	34	150	145	280

AH42F-$^{16}_{25}_{40}$C型安全回流阀 Back-flow safety valve

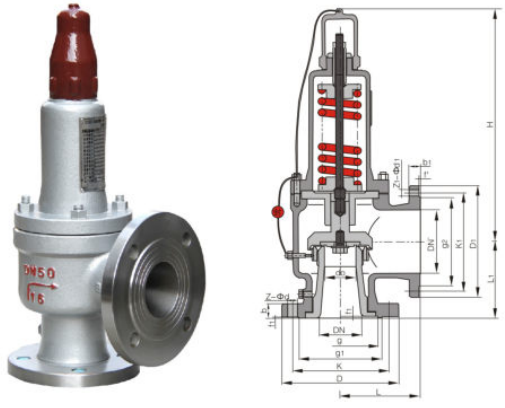
用途 Use

A42F型适用于工作温度-29～+80℃的液化石油气和类似非腐蚀性介质的设备和管路上，AH42F型安全回流阀适用于液化石油气罐泵出口的液相回流管道上，当设备和管路内压力超过允许值时，阀门自动开启，继而全量排放，当压力降低到规定值时，阀门自动关闭，保证设备安全运行。

A42F type is suitable for the temperature -29~+80℃ of liquefied petroleum gas (LPG) and similar non corrosive medium equipment and piping, AH42F type safe backflow preventer for liquefied petroleum gas tank liquid reflux pipe on pump discharge, when equipment and pressure exceeds allowable values in the pipeline, valve automatically opens, then the amount of emissions, when pressure is reduced to the specified value, the valve automatically shut down, guarantee the safe operation of the equipment.

主要连接尺寸 Main connection size

公称通径 DN(mm)	do	DN'	L	L1	≈H
20	15	25	100	85	291
25	16	32	110	95	291
32	20	40	115	100	293
40	25	50	120	110	302
50	32	65	135	120	323
65	40	80	160	135	398
80	50	100	170	135	410
100	65	125	195	175	542
100	65	150	176	185	581
125	80	150	210	190	578
150	100	175	255	230	595
150	100	200	250	210	619
200	125	250	300	260	737
250	150	300	350	320	885
300	220	400	380	350	1243
350	250	500	500	450	1520



A42F、AH42F型结构图 Structure

AHN42F型平行式安全回流阀 Parallelled back-flow safety valve

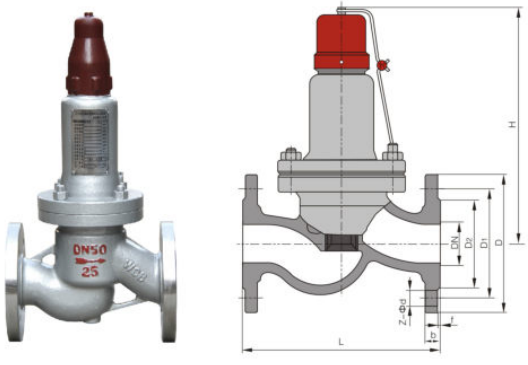
用途 Use

AHN42F型安全回流阀适用于液化气石油气罐泵出口的液相回流管道上，当泵前压力超过规定值时，阀门自开启并起安全回流作用，保证设备和管路的安全运行。

AHN42F type safety valve applies to liquefied petroleum gas pump liquid return pipe, when the pump before the pressure exceeds a predetermined value, the valve opens and plays safe from reflux role in ensuring the safe operation of equipment and piping.

主要连接尺寸 Main connection size

公称通径 DN(mm)	D	K	g1	b	z-Φd	L	≈H
40	150	110	85	16	4-18	200	236
50	165	125	100	18	4-18	230	266
65	185	145	120	20	4-18	290	430
80	200	160	135	20	8-18	310	490
100	220	180	155	22	8-18	350	548
150	285	240	210	24	8-23	480	706



AHN42F型结构图 Structure

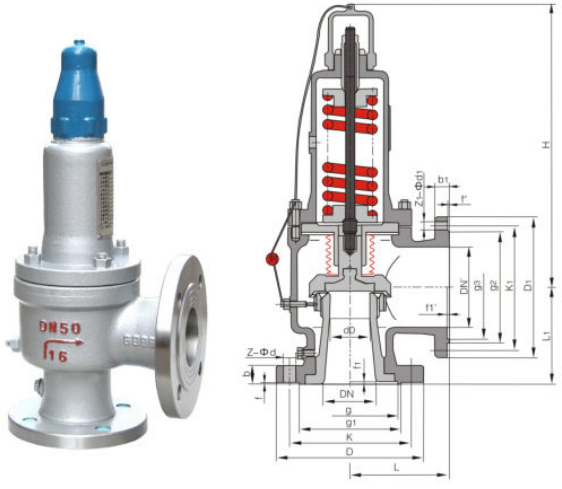
WA42Y-$\frac{16}{25}$P/R型波纹管背压平衡全启式安全阀 Back pressure balanced bellows full lift type safety valve

用途 Use

本阀适用于工作温度≤300℃存在变动背压、有毒易燃或腐蚀性介质的设备或管路系统，作为安全保护装置。
The valves are suitable for working temperatures=300℃ exist backpressure changes, toxic flammable or corrosive media, equipment or piping systems, as safety devices.

主要连接尺寸 Main connection size

公称通径 DN(mm)	do	DN'	L	L_1	≈H
20	15	25	100	85	291
25	16	32	110	95	291
32	20	40	115	100	295
40	25	50	120	110	302
50	32	65	135	120	323
65	40	80	160	135	394
80	50	100	170	135	410
100	65	125	195	175	542
100	65	150	176	185	581
125	80	150	210	190	578
150	100	175	255	230	595
150	100	200	250	210	619
200	125	250	300	260	734
250	150	300	350	320	885
300	220	400	380	350	1243
350	250	500	500	450	1340



WA42Y型结构图 Structure

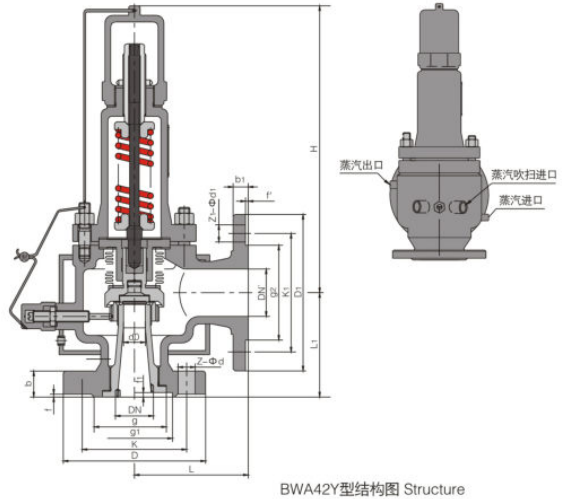
BWA42Y-$\frac{16}{25}$P/R型保温波纹管背压平衡全启式安全阀 Insulation back pressure balanced bellows full lift type safety valve

用途 Use

BWA42型安全阀用作聚脂、乙烯及尿素等装置，安全阀配备保温夹套，蒸汽吹扫接头，确保系统安全运行。
BWA42 type valve used polyester, ethylene and urea and other devices equipped with a safety valve insulation jacket, steam purge fittings, ensuring the safe operation of the system.

主要连接尺寸 Main connection size

公称通径 DN(mm)	do	DN'	L	L_1	≈H
20	15	25	100	85	291
25	16	32	110	95	291
32	20	40	115	100	295
40	25	50	120	110	302
50	32	65	135	120	323
65	40	80	160	135	394
80	50	100	170	135	410
100	65	125	195	175	542
125	80	150	210	190	578
150	100	175	255	230	595
150	100	200	250	210	619
200	125	250	305	260	734
250	150	300	350	320	885
300	220	400	380	350	1243
350	250	500	500	450	1340



BWA42Y型结构图 Structure

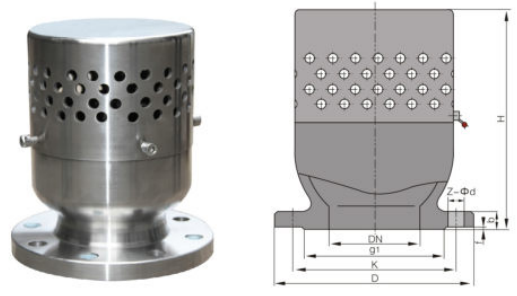
TFA72W-10P型真空负压安全阀 Vacuum negative-pressure safety valve

用途 Use

1、用于负压系统：当负压容器系统内负压超过允许值时，该阀自动开启，吸入空气。当负压升到规定值时，阀门自动关闭，从而保证设备容器及系统的安全运行；
2、用于正常非负压系统：各种腐蚀性介质容器，如吸收塔、蒸馏塔、贮槽、罐等，当通入蒸汽清洗后，如放散阀未打开，蒸汽冷凝，产生负压，安装设备即确保设备安全。
1. For the vacuum system: When the negative pressure within the vacuum vessel system exceeds the allowable value, the valve automatically opens, the intake air. When the negative pressure rose to a predetermined value, the valve automatically closes, thus ensuring the safe operation of equipment and systems for containers;
2. For normal nonvacuum system: a variety of corrosive media containers, such as absorption towers, distillation towers, storage tanks, cans, etc., when the pass into the steam cleaning, such as relief valve is not open, the steam condenses, generating a negative pressure, installation of equipment that ensure the safety of the device.

主要连接尺寸 Main connection size

公称通径 DN(mm)	D	K	g_1	z-Φd	b	f	≈H
15	95	65	45	4-14	14	2	140
20	105	75	55	4-14	16	2	145
25	115	85	65	4-14	16	2	145
32	140	100	78	4-18	18	2	145
40	150	110	85	4-18	18	3	190
50	165	125	100	4-18	20	3	190
80	200	160	135	4-18	22	3	215
100	220	180	155	8-18	22	3	340
125	250	210	185	8-18	24	3	375
150	285	240	210	8-23	24	3	415
200	340	295	265	8-23	26	3	477
250	395	350	320	12-23	26	3	492



TFA72W型结构图 Structure

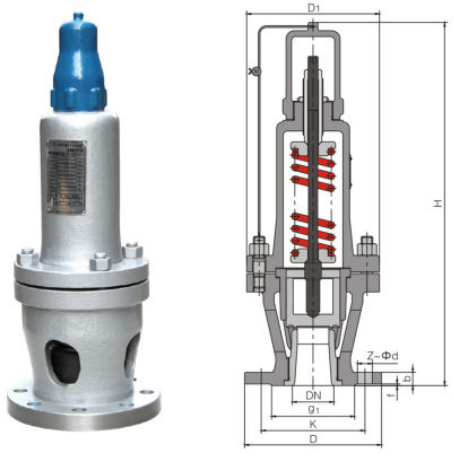
TFAF4QH-10C安全阀 Safety valve

用途 Use

TFAF4QH型安全阀主要用于风机系统，作为设备超压保护装置。
TFAF4QH type valve mainly used in wind turbine systems as equipment overpressure protection device.

主要连接尺寸 Main connection size

公称通径 DN(mm)	D	K	g_1	z-Φd	b	f	D_1	≈H
40	150	110	85	4-18	16	3	100	250
50	165	125	100	4-18	16	3	115	272
65	185	145	120	4-18	18	3	140	285
80	200	160	135	4-18	20	3	172	296
100	220	180	155	8-18	20	3	212	425
125	250	210	185	8-18	22	3	254	450
150	285	240	210	8-23	22	3	280	480



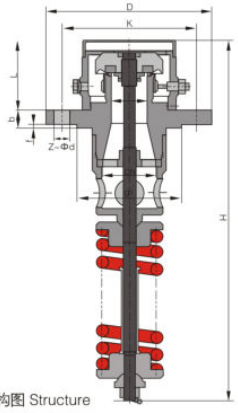
TFAF4QH型结构图 Structure

TANA42F-25型内装式安全阀 Inner assemble safety valve

用途 Use

TANA42F内装式安全阀主要用于铁路和汽车石油液化气槽车或地面液化气储罐上使用，作为设备的超压安全保护装置。

TANA42F is mainly used for railway and automotive liquefied petroleum gas tankers or liquefied gas storage tanks using the ground as a safety device for overpressure protection device .



TANA42F型结构图 Structure

主要连接尺寸 Main connection size

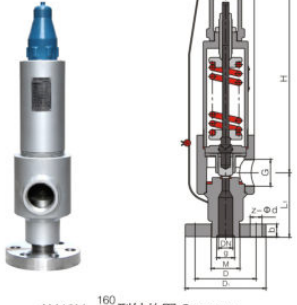
公称通径 DN(mm)	L	D	K	g1	d0	b	f	z-Φd	≈H
50	95	160	125	100	34	20	3	4-18	393
80	99	235	190	149	52	25	4.5	8-22	512

AY42H-$^{160}_{250}_{400}$、AY802Y-600型安全溢流阀 Safety overflow valve

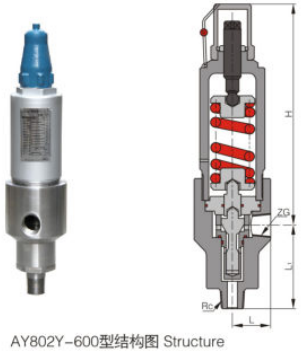
用途 Use

AY42H、AY802Y型安全溢流阀适用于工作温度≤200℃的石油、化工以及其它液压输送管路中，作为设备的超压保护装置。

AY42H, AY802Y type is suitable for temperature=200℃ petroleum, chemical, and other hydraulic conveying pipe, as overpressure protection device .



AY42H-$^{160}_{250}_{400}$型结构图 Structure



AY802Y-600型结构图 Structure

主要连接尺寸 Main connection size

型号 Model	公称通径 DN(mm)	D1	D	z-Φd	M	d0	L	L1	G	b	g	≈H
AY42H-160 AY42H-250 AY42H-400	10	68	105	4-18	R3/4"	10	52.5	117	3/4"	25	20	304
	15	95	135	6-26	R1"	15	52.5	140	1"	25	25	304
	20	145	200	6-29	M56×2	20	65	170	1 1/2"	40	30	355
	25	145	200	6-29	M64×2	25	70	170	2"	40	38	408
	32	155	210	6-29	M64×3	32	80	181	2 1/2"	40	40	520

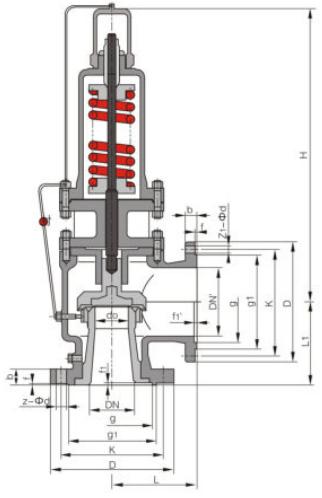
型号 Model	公称通径 DN(mm)	L	ZG	Rc	L1	≈H
AT820Y-600	15	42.5	1/2"	1/2"	94	277
	25	53	1"	1"	132	315

A40Y-$^{16}_{25}_{40}$C/I/V/P型带封闭散热器弹簧全启式安全阀 Closed spring full type safety valve with a radiator

用途 Use

A40Y-C型适用于工作温度≤400℃、A40Y-I型适用于工作温度≤450℃、A40Y-V型适用于工作温度≤510℃的空气、石油气、氮氢混合气等介质的设备或管路上，作为超压保护装置。

A40Y-C is suitable for the working temperature≤400℃, A40Y-I is suitable for the working temperature ≤450℃, A40Y-V is suitable for the working temperature ≤510℃ such as air, petroleum gas, hydrogen and nitrogen mixture of equipment or piping, as the overpressure protection device.



A40Y$^{16}_{25}_{40}$型结构图 Structure

主要连接尺寸 Main connection size

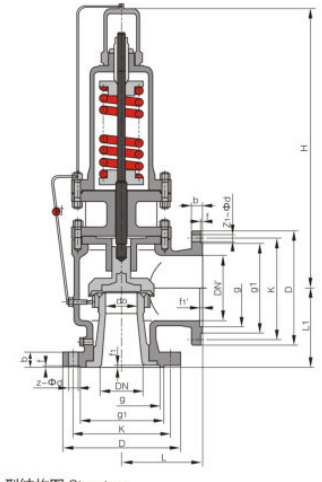
公称通径 DN(mm)	d0	DN'	L	L1	≈H
20	15	25	100	85	360
25	16	32	110	95	360
32	20	40	115	100	365
40	25	50	120	110	380
50	32	65	135	120	400
65	40	80	160	135	500
80	50	100	170	135	512
100	65	125	195	175	635
125	80	150	210	190	710
150	100	175	255	230	725
150	100	200	250	210	619
200	125	250	300	260	880

A40Y-$^{64}_{100}$C/I/V/P型带封闭散热器弹簧全启式安全阀 Closed spring full type safety valve with a radiator

用途 Use

A40Y-C型适用于工作温度≤400℃、A40Y-I型适用于工作温度≤450℃、A40Y-V型适用于工作温度≤510℃的空气、石油气、氮氢混合气等介质的设备或管路上，作为超压保护装置。

A40Y-C is suitable for the working temperature≤400℃, A40Y-I is suitable for the working temperature ≤450℃, A40Y-V is suitable for the working temperature ≤510℃ such as air, petroleum gas, hydrogen and nitrogen mixture of equipment or piping, as the overpressure protection device.



A40Y$^{64}_{100}$型结构图 Structure

主要连接尺寸 Main connection size

型号 Model	公称通径 DN(mm)	d0	DN'	L	L1	≈H
A40Y-64C A40Y-64I A40Y-100C A40Y-100I	20	12	25	100	100	355
	25	16	32	110	105	355
	32	20	40	130	110	375
	40	25	50	135	120	390
	50	32	65	160	130	495
	65	40	80	160	150	605
	80	50	100	175	160	615
	100	65	125	220	200	695
	150	100	200	280	280	995

A48sH-16/25/40C/I/V/P型高温弹簧全启式安全阀 High temperature spring loaded fill lift type safety valve

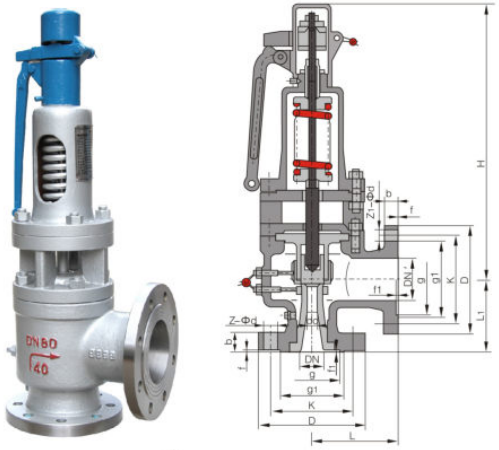
用途 Use

A48sH-C型适用于工作温度≤425℃、A48sH-I型适用于工作温度≤510℃、A48sH-V型适用于工作温度≤550℃的蒸汽等介质的设备或管路上，作为超压保护装置。

A48sH-C is suitable for the working temperature≤425℃, A48sH-I is suitable for the working temperature of 510℃ or less, A48sH-V is suitable for the working temperature ≤550℃ such as steam equipment or piping, as the overpressure protection device.

主要连接尺寸 Main connection size

公称通径 DN(mm)	d0	DN'	L	L1	≈H
25	15	32	110	95	418
40	25	50	120	110	430
50	32	65	160	130	525
50	32	80	139	135	530
65	40	80	160	135	535
80	50	100	170	150	635
100	65	125	205	185	805
100	65	150	176	190	748
150	100	175	255	230	800
150	100	200	250	210	810
200	125	250	290	310	930
250	150	300	350	320	1098



A48sH16/25/40型结构图 Structure

A48sY-64/100/160C/I/V型高温高压弹簧全启式安全阀 High temperature and pressure spring loaded full lift type safety valve

用途 Use

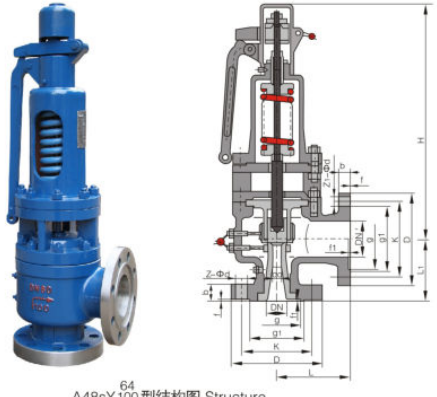
A48sY-C型适用于工作温度≤425℃、A48sY-I型适用于工作温度≤510℃、A48sY-V型适用于工作温度≤550℃的蒸汽等介质的设备或管路上，作为超压保护装置。

A48sY-C is suitable for the working temperature≤425℃, A48sY-I is suitable for the working temperature of 510℃ or less, A48sY-V is suitable for the working temperature ≤550℃ such as steam equipment or piping, as the overpressure protection device.

主要连接尺寸 Main connection size

公称通径 DN(mm)	d0	DN'	L	L1	≈H
25	15	32	110	105	423
40	25	50	135	120	436
50	32	65	160	130	525
65	40	80	160	150	555
80	50	100	175	160	705
80	50	150	190	190	775
100	65	125	220	200	760
100	65	150	220	200	770
150	90	200	280	280	1073
200	125	250	300	321	1266
250	150	350	350	390	1476

型号 Model	公称通径 DN(mm)	d0	DN'	L	L1	≈H
TFA48TH-100	50	32	80	160	145	660
TFA48SB-160	80	40	150	215	210	775



A48sY64/100/160型结构图 Structure

GYA系列液压安全阀 Series liquid-pressure safety valve

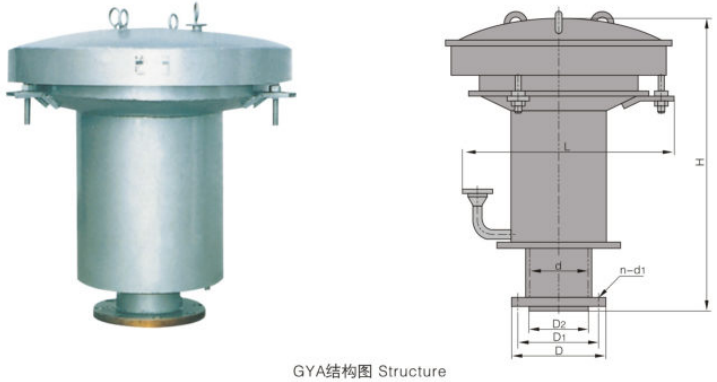
用途 Use

1、液压式安全阀是(活瓣式)呼吸阀的安全备用设备，它的吸气和呼气的动作压力略高于(活瓣式)呼吸阀，在呼吸阀一旦失灵或在冬季其活瓣冻结时，液压安全阀的液封即被破坏从而保护油罐免遭破坏。

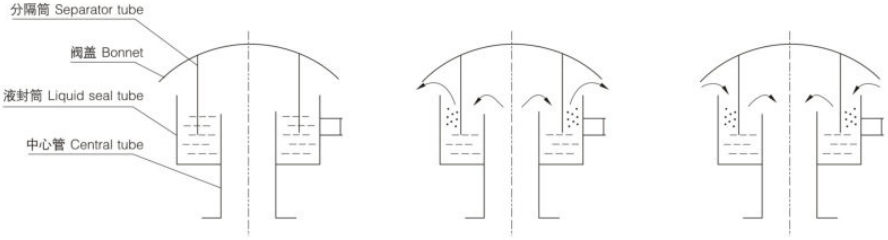
2、液压安全阀装于油罐顶部与呼吸阀配合使用。

3、控制压力：+56毫米水柱至-50毫米水柱。

1. Hydraulic safety valve is (live) breathing valve safety backup device, the inspiratory and expiratory pressure slightly higher than the (flapper type) the respiration valve, the respiration valve once failure or in the winter when the flapper is frozen, the liquid seal of hydraulic safety valve that is destroyed to protect oil tank from damage.
2. Hydraulic pressure relief valve installed in the tank top used with breather valve
3. Control pressure: +56 mm water column to −50 mm water column.



GYA结构图 Structure



主要连接尺寸 Main connection size

型号 Model	规格 Norms	安装尺寸 Installation dimensions (mm)							重量(kg) Weight
		d	D	D1	D2	n-d1	L	H	
GYA-80	80	Φ85	Φ185	Φ150	Φ125	4-Φ18	376	424	38
GYA-100	100	Φ105	Φ205	Φ170	Φ145	4-Φ18	500	605	42
GYA-150	150	Φ148	Φ260	Φ225	Φ200	8-Φ18	650	705	66
GYA-200	200	Φ210	Φ315	Φ280	Φ255	8-Φ18	900	755	97
GYA-250	250	Φ264	Φ370	Φ335	Φ310	12-Φ18	1050	885	140

注：法兰标准JB/T78。
Note: the flange standard JB/T78.

弹簧全启式安全阀 (W系列) Spring loaded full lift type safety valve (W series)

A68Y 说明 Instructions

主要用于电站锅炉、压力容器、减温减压装置上，保证设备安全运行。
Mainly used for power plant boiler, pressure vessel, desuperheating decompression device, ensure the safe operation of the equipment.

结构简述 Structure outlined

1、弹簧全启式安全阀具有结构简单，密封性能好，开启压力准确，排放能力大，回座压差小，调整方便等特点。

2、喷嘴型阀座：阀座为拉伐尔喷嘴型阀座，蒸汽流经阀座出口处时达到音速，排放系数大，阀座密封面堆焊钴铬钨硬质合金，耐磨抗冲蚀，寿命长。

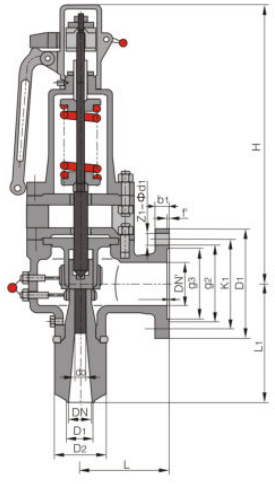
3、热弹性阀瓣：阀瓣设计为热弹性结构，利用其在介质压力下微小的变形，提高密封能力，克服安全阀在介质压力下临近整定压力时的前泄现象。阀瓣密封面采用先进的淬火技术，提高了硬度、耐磨性、抗冲抗性。

4、上调节圈：通过调整上调节圈，改变由阀座排放出的介质流动方向，使阀门获得合适的回座压力。

5、下调节圈：通过下调节圈，使阀门在启跳时迅速达到全开。

6、背压调整套：调整阀瓣背压的辅助机构，通过背压调整套调整，可获得合适的回座压差。

1. Spring loaded full lift type safety valve has a simple structure, good sealing performance, accurate opening pressure, high discharge capacity, small back seat pressure, easy to adjust and so on.
2. Nozzle type seat: seat is Laval nozzle type, reaching the speed of sound at the outlet of the steam flow through the valve seat, the emission coefficient, the valve seat sealing surface cobalt chromium tungsten carbide, wear impact corrosion, long life.
3. Thermo–elastic disc: An elastic valve structure is designed to heat, using a slight modification in the medium under pressure to improve the sealing ability, to overcome the phenomenon before the vent valve is close to the set pressure of the pressure medium at the time. Valve sealing surface hardening using advanced technology to improve the hardness, wear resistance, impact resistance.
4. upper adjustment ring: adjust the adjusting ring to change emission direction of the media flow valve seat, the valve will get the right return pressure.
5. Lower adjustment ring: through the adjustment ring to enable the valve to jump up quickly when the valve fully open.
6. Back pressure adjusting sleeve: Adjust the auxiliary bodies of the adjusting disc back pressure, adjust proper back pressure by back–pressure adjustment to get right back to the differential pressure.



W系列结构图/TFA68型结构图
W Series structure/TFA68 structure

主要连接尺寸 Main connection size

型号 Model	公称通径 DN	尺寸 Dimensions (mm)									
		L	L1	Do	H	DN'	D	D1'	D2'	B'	Z'–d'
TFA68Y–250/TFA68Y–P5414V	40	175	250	17	705	100	230	190	150	24	8–23
TFA68Y–250/TFA68Y–P5414V	50	175	250	25	705	100	230	190	150	24	8–23
TFA68Y–250/TFA68Y–P5414V	50	200	290	32/34	785	150	345	280	204	38	8–34
TFA68Y–250/TFA68Y–P5414V	60	200	290	40/48	785	150	300	250	204	30	8–25
TFA68Y–250/TFA68Y–P5414V	65	200	290	40	785	150	345	280	204	38	8–34
TFA68Y–250/TFA68Y–P5414V	65	240	315	52	863	200	375	320	260	38	12–30
TFA68Y–250/TFA68Y–P5414V	80	200	305	40	785	150	345	280	204	38	8–34
TFA68Y–250/TFA68Y–P5414V	80	240	315	58	863	200	375	320	260	38	12–30
TFA68Y–250/TFA68Y–P5414V	100	200	305	65	785	150	345	280	204	38	8–34
TFA68Y–250/TFA68Y–P5414V	100	240	315	65	863	200	375	320	260	38	12–30
TFA68Y–250/TFA68Y–P5414V	150	300	385	90	1268	250	450	385	313	42	12–34
TFA68Y–250/TFA68Y–P5414V	200	400	550	102	1476	300	515	450	364	46	16–34
TFA68Y–250/TFA68Y–P5414V	250	400	575	150	1505	350	580	510	422	52	16–34
TFA68Y–1500Lb	1½"	160/175	225/250	17	660/705	出口3"×300Lb/出口4"×300Lb					
TFA68Y–1500Lb	2"	175/200	250/290	25.4	705/785	出口4"×300Lb/出口6"×300Lb					
TFA68Y–1500Lb	2½"	200/240	290/315	32	785/863	出口6"×300Lb/出口8"×300Lb					
TFA68Y–1500Lb	3"	200/240	305/315	48/58	785/863	出口6"×300Lb/出口8"×300Lb					
TFA68Y–1500Lb	4"	200/240	305/315	60	785/863	出口6"×300Lb/出口8"×300Lb					
TFA68Y–1500Lb	6"	300	385	85	1268	出口10"×300Lb					
TFA68Y–1500Lb	8"	400	550	102	1476	出口12"×300Lb					
TFA68Y–1500Lb	10"	400	575	145	1505	出口14"×300Lb					

A46Y/F–16/25/40C/P/R、A46Y/F–64/100/160C/P/R先导式安全阀 Pilot operated safety valve

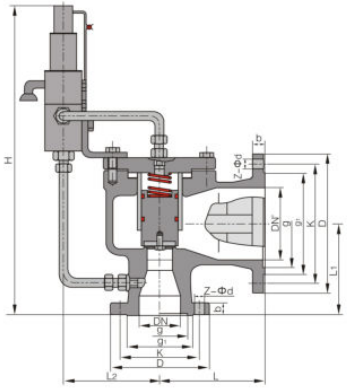
用途 Use

先导式安全泄压阀是一种新颖结构的安全阀。主要用于石油天然气、化工、电力、冶金和城市燃气等领域，是受压设备、容器或管路上的最佳超压保护装置。其主要优点是变弹簧直接作用为导阀间接作用，提高了动作的灵敏度，而且主阀采用套筒活塞式，动作精度高、重复性好、回座压力高、密封性能好、能带高背压排放、工作稳定可靠，可在线调校，操作维护方便。

Pilot–operated safety valve is a safety valve of a novel structure. Mainly used for oil and gas, chemical, power, metallurgy and other fields of city gas, overpressure protection device is the best compression equipment, containers or tubes on the road. Its main advantage is the direct effect of varying the pilot valve spring indirect role in enhancing the sensitivity of the action, and the use of the main valve piston sleeve, high motion accuracy, repeatability, high–back seat pressure, good sealing performance, high–energy band back pressure discharge, stable and reliable, available online adjustment, easy operation and maintenance.

A46Y/F–16/25/40C/P/R主要连接尺寸 Main connection size

公称通径 DN(mm)	d0	DN'	L	L1	≈H
25	15	32	110	95	450
25	15	50	115	100	470
32	20	40	115	100	455
40	25	50	120	110	475
50	32	65	135	120	495
50	33	80	139	135	515
65	40	80	160	135	515
80	50	100	170	135	530
100	65	125	195	175	585
100	65	150	176	185	615
150	100	175	255	230	675
150	100	200	250	210	695
200	125	250	300	260	745



A46Y/F型结构图 Structure

A46Y/F–64/100/160C/P/R主要连接尺寸 Main connection size

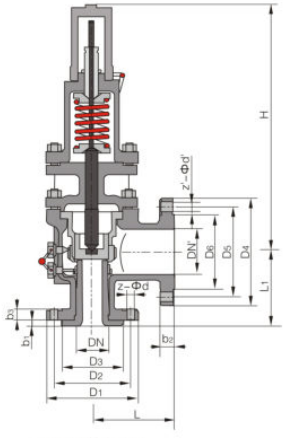
PN64–100						PN160					
公称通径 DN(mm)	d0	DN'	L	L1	≈H	公称通径 DN(mm)	d0	DN'	L	L1	≈H
25	15	32	110	105	465	25	13	50	129	125	502
25	15	50	115	105	470	40	20	50	140	155	545
32	20	40	130	110	398	50	25	80	180	180	575
40	25	50	135	120	485	80	48	100	175	160	560
50	32	65	160	130	505	100	60	150	220	200	640
50	32	80	160	145	550						
65	40	80	160	150	550						
80	50	100	175	160	560						
100	65	125	220	200	620						
100	65	150	220	200	640						
150	100	200	285	260	720						
200	125	250	300	321	840						

炼油安全阀系列 Refining safety valve series

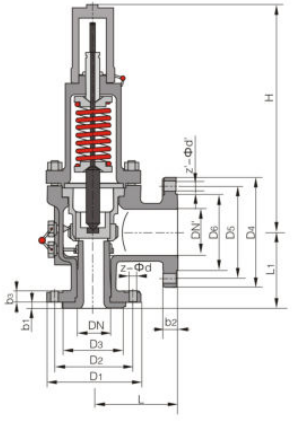
用途 Use

炼油专用安全阀是石油化工受压容器的主要附件之一，用于控制容器压力，保证容器安全。本系列安全阀为密闭全开型弹簧安全阀，即当气体介质压力高于整定压力3%时，阀门自动开启，继而全量排放。本系列安全阀可以具有稳定背压，无腐蚀或含轻微硫腐蚀的气体、液体下使用。

Refining special safety valve is one of the main accessories petrochemical pressure vessels used to control the pressure vessel to ensure vessel safety. This series valve is fully open spring valve closed, that is, when the gas pressure is higher than when the media set pressure of 3%, the valve automatically opens, then the whole amount of emissions. This series backpressure valve can have a stable, non-corrosive or corrosive sulfur-containing light gases, liquids under use.



TA型弹簧安全阀
TA type spring loaded safty valve



A型弹簧安全阀
A type spring loaded safty valve

主要连接尺寸 Main connection size

公称通径 DN(mm)	L_1	L	D_1	D_2	D_3	D_4	D_5	D_6	b_1	b_2	b_3	z-Φd	z'-Φd'	≈H
A1D40	100	99	115	85	57	160	125	100	9	19	16	4-14	4-18	327
TA1D40														424.5
A1.5F40	120	107	145	110	75	160	125	100	13	20	16	4-18	4-18	363.6
TA1.5F40														443.5
A2J16	150	139	160	125	92	195	160	135	14	22	20	4-18	8-18	409
TA2J16														539.5
A2H40	150	139	160	125	87	195	160	135	14	22	20	4-18	8-18	409
TA2H40														539.5
A3L16	160	147	195	160	133	215	180	155	12	22	20	8-18	8-18	487
TA3L16														652
A3K40	160	149	195	160	120	215	180	155	14	24	20	8-18	8-18	489
TA3K40														654
A4P16	200	176	215	180	153	280	240	210	13	22	24	8-18	8-23	596
TA4P16														789
A4N40	200	182.5	230	190	149	280	240	210	17.5	26	24	8-23	8-23	639.5
TA4N40														832.5
A6R5.5	230	228	280	240	195	335	295	265	18	24	26	8-23	8-23	757
TA6R5.5														976
A6Q16	230	228	280	240	189	335	295	265	18	24	26	8-23	8-23	775
TA6Q16														986

炼油安全阀系列 Refining safety valve series

型号系列 Model Series

系列 Series	型号 Model	进口法兰 Inlet flange		定压范围 MPa Constant pressure range	流道尺寸 Flow channel dimensions			作用温度℃ The role of temperature
		公称通径DN	公称压力PN(MPa)		代号 Code	流道直径d_0 Runner diameter	流道面积cm^2 Flow area	
A型 Type	A1D40	25	4.0	0.03～4.2	D	10	0.78	-25～300
	A1.5F40	40	4.0	0.03～4.2	F	16	2.0	-25～300
	A2J16	50	1.6	0.03～<1.3	J	33	8.54	-25～300
	A2H40	50	4.0	1.30～4.2	H	26	5.31	-25～300
	A3L16	80	1.6	0.03～<1.6	L	50	19.62	-25～300
	A3K40	80	4.0	1.6～4.2	K	40	12.56	-25～300
	A4P16	100	1.6	0.03～<1.6	P	72	40.69	-25～300
	A4N40	100	4.0	1.60～4.2	N	60	28.26	-25～300
	A6R5.5	150	1.6	0.03～<0.55	R	115	103.82	-25～300
	A6Q16	150	1.6	0.55～1.6	Q	96	72.35	-25～300
TA型 Type	TA1D40	25	4.0	0.03～4.2	D	10	0.78	>300～550
	TA1.5F40	40	4.0	0.03～4.2	F	16	2.0	>300～550
	TA2J16	50	1.6	0.03～<1.3	J	33	8.54	>300～550
	TA2H40	50	4.0	1.30～4.2	H	26	5.31	>300～550
	TA3L16	80	1.6	0.03～<1.6	L	50	19.62	>300～550
	TA3K40	80	4.0	1.6～4.2	K	40	12.56	>300～550
	TA4P16	100	1.6	0.03～<1.6	P	72	40.69	>300～550
	TA4N40	100	4.0	1.60～4.2	N	60	28.26	>300～550
	TA6R5.5	150	1.6	0.03～<0.55	R	115	103.82	>300～550
	TA6Q16	150	1.6	0.55～1.6	Q	96	72.35	>300～550

弹簧编号与定压范围 Number and scope of the spring constant pressure

公称压力 PN(MPa)	阀体进出口直径(进口直径代号) Valve inlet and outlet diameter (inlet diameter code)	25×50(1)		40×50(2)		50×80(1.5)		80×100(3)		100×150(4)		150×200(6)	
	流道直径代号 Runner diameter Code	D		F		J		H		L		K	
	流道面积 Flow area(cm^2)	0.78		2.0		8.54		5.31		19.62		12.56	
	压力范围 Pressure range MPa	弹簧编号 Spring No.											
1.6	0.03～<0.1	101		201		301				401			
	0.1～<0.2	102		202		302				402			
	0.2～<0.3	103		203		303				403			
	0.3～<0.4	104		204		304				404			
	0.4～<0.55	105		205		305				405			
	0.55～<0.7	106		206		306				406			
	0.7～<0.9	107		207		307				407			
	0.9～<1.1	108		208		308				408			
	1.1～<1.35	109		209		309				409			
	1.35～<1.6	110		210		310		310		410			
4.0	1.6～<1.9	111		211				311				411	
	1.9～<2.2	112		212				312				412	
	2.2～<2.55	113		213				313				412	
	2.55～<2.9	114		214				314				414	
	2.9～<3.3	115		215				315				415	
	3.3～<3.7	116		216				316				416	
	3.7～<4.2	117		217				317				417	

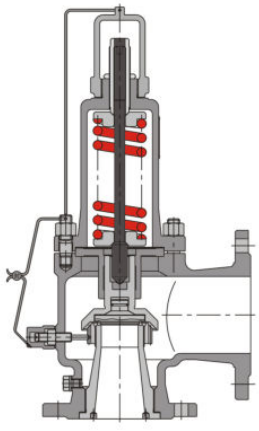
公称压力 PN(MPa)	阀体进出口直径(进口直径代号) Valve inlet and outlet diameter (inlet diameter code)	100×150(4)		150×200(6)	
	流道直径代号 Runner diameter Code	P	N	R	Q
	流道面积 Flow area(cm^2)	40.69	28.26	103.82	72.35
	压力范围 Pressure range MPa	弹簧编号 Spring No.			
1.6	0.03～<0.1	501		601	601
	0.1～<0.2	502		602	602
	0.2～<0.3	503		603	603
	0.3～<0.4	504		604	604
	0.4～<0.55	505		605	605
	0.55～<0.7	506		606	606
	0.7～<0.9	507		607	607
	0.9～<1.1	508		608	608
	1.1～<1.35	509		609	609
	1.35～<1.6	510		610	610
4.0	1.6～<1.9		511		
	1.9～<2.2		512		
	2.2～<2.55		513		
	2.55～<2.9		514		
	2.9～<3.3		515		
	3.3～<3.7		516		
	3.7～<4.2		517		

SP系列德标安全阀 German sign safety valve

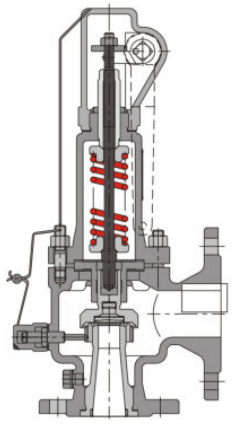
用途 Use

SP系列德标安全阀主要用于石油、天然气、化工、电力、城市燃气等领域，作为超压保护装置，具有动作精度高，重复性好，回座准确，操作维护方便等特点。

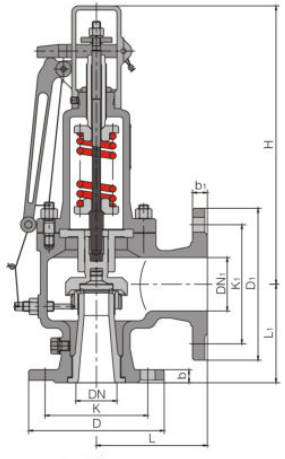
SP Series DIN valve is mainly used for oil, gas, chemical, power, gas and other urban areas, as the overpressure protection device, with the action of high accuracy, good repeatability, the back seat is accurate and easy operated.



SP42型 Type



SP44型 Type



SP48型 Type

型号 Model	公称压力PN	阀体材质 Body material	公称通径DN	工作温度 Operating Temperature
SP A42/A44/A48	PN40/16	铸钢 Cast steel 1.0619+N	DN20/32 ~ DN150/250	−10℃ ~ +450℃
SP A42/A44/A48	PN40/16	不锈钢 Stainless steel 1.4408	DN20/32 ~ DN100/150	−60℃ ~ +400℃

DN	20/32	25/40	32/50	40/65	50/80	65/100	80/125	100/150	125/200	150/250
流通孔径 Circulation aperture d_N(mm)	12	16	20	25	32	40	48	65	80	90

主要连接尺寸 Main connection size

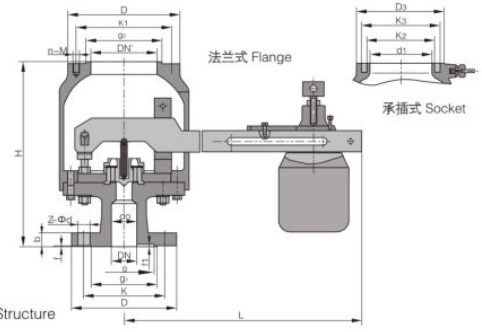
SP A42/A44/A48型安全阀 Safety valve											
DN × DN_1		20 × 32	25 × 40	32 × 50	40 × 65	50 × 80	65 × 100	80 × 125	100 × 150	125 × 200	150 × 250
D	PN16	105	115	140	150	165	185	200	220	250	285
	PN40	105	115	140	150	165	185	200	235	270	300
K	PN16	75	85	100	110	125	145	160	180	210	240
	PN40	75	85	100	110	125	145	160	190	220	250
b		20	20	20	21	22	24	26	28	31	34
D_1	PN16	140	150	165	185	200	220	250	285	340	405
K_1		100	110	125	145	160	180	210	240	295	355
b_1		19	19	20	20	20	20	22	22	27	29
L		85	100	110	115	120	140	160	180	200	225
L_1		95	105	115	140	150	170	195	220	250	285
≈H		309	306	315	328	346	435	455	600	653	680
排污孔(带螺塞) Sewage hole (with plug)		G3/8"			G1/2"						

GA42H−$^{16}_{25}_{40}_{64}_{100}$C型单杠杆安全阀 Single lever safety valve

用途 Use

GA42H型安全阀适用于温度≤450℃的空气、蒸汽等介质的设备和管路上作为超压保护装置。

GA42H safety valve is suitable for temperature=450℃ equipment and piping, such as air, steam and other media as overpressure protection device.



GA42H型结构图 Structure

主要连接尺寸 Main connection size

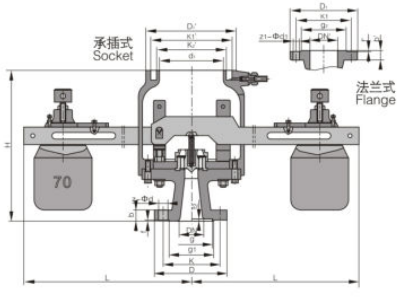
型号 Model	公称通径 DN(mm)	尺寸 Dimensions (mm)																			
		d_0	D	K	g_1	g	f	f_1	b	Z−Φd	L	≈H	出口法兰式 Export flange						出口承插式 Export socket			
													DN'	g_2	K_1	D_1	n−M		d_1	K_2'	K_1'	D_1'
GA42H−16	50	40	165	125	100	/	3	/	16	4−18	840	412	125	175	200	235	8−M16		120	145	162	190
GA42H−25	50	40	165	125	100	/	3	/	20	4−18	840	412	125	175	200	235	8−M16		120	145	162	190
GA42H−40	50	40	165	125	100	88	3	4	20	4−18	840	412	125	175	200	235	8−M16		120	145	162	190
GA42H−64	50	40	175	135	105	88	3	4	26	4−23	840	420	125	175	200	235	8−M16		120	145	162	190
GA42H−100	50	40	195	145	112	88	3	4	28	4−25	840	420	125	175	200	235	8−M16		120	145	162	190

GA44H−$^{16}_{25}_{40}_{64}$C型双杠杆安全阀 Dual lever safety valve

用途 Use

GA44H型安全阀适用于温度≤450℃的空气、蒸汽等介质的设备和管路上作为超压保护装置。

GA44H safty valve is suitable for temperature=450℃, such as air, steam equipment and pipeline of such medium as exceeding pressing protectors.



GA44H型结构图 Structure

主要连接尺寸 Main connection size

型号 Model	公称通径 DN(mm)	尺寸 Dimensions (mm)																				
		d_0−z	D	K	g_1	g	f	f_1	b	Z−Φd	L	≈H	出口法兰式 Export flange							出口承插式 Export socket			
													DN'	g_2	K_1	D_1	b_1	f'	Z_1−$Φd_1$	d_1	K_2'	K_1'	D_1'
GA44H−16	80	50 × 2	200	160	135	−	3	−	20	8−18	410	900	150	210	240	280	24	3	8−23	120	145	162	190
GA44H−25	80	50 × 2	200	160	135	−	3	−	22	8−18	410	900	150	210	240	280	24	3	8−23	120	145	162	190
GA44H−40	80	50 × 2	200	160	135	121	3	4	22	8−18	410	900	150	210	240	280	24	3	8−23	120	145	162	190
GA44H−64	80	40 × 2	210	170	140	121	3	4	30	8−23	480	900	200	255	280	315	24	3	8−18	200	218	253	285

GA49H-16型冲量安全阀 Impulse safety valve

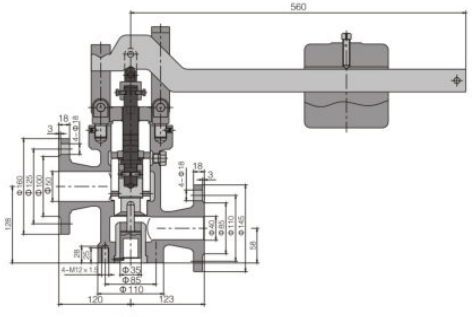
用途 Use

GA49H-16C型DN40/50冲量安全阀，主要用于电站锅炉或蒸汽压力管道上，该阀可配套或单独使用。当压力容器内介质压力超过允许值时，阀瓣开启排除超压蒸汽，当压力下降到一定值时，阀瓣靠杠杆上的重锤将阀门迅速关闭，保证设备安全运行。

GA49H-16C DN40/50, mainly used in boilers or steam pressure piping, the valve may be accessory or used separately. When the medium-pressure exceeds the allowing value in pressure vessel, valve flap opens to exclude excess pressure steam when the pressure falls below a certain value, heavy hammer on the valve lever valve quickly closes to ensure safe operation of the equipment.

主要零部件材料 Main parts materials

零件名称 Name	材质 Material	零件名称 Name	材质 Material
阀体 Body	WCB	杠杆 Lever	碳钢 Carbon steel
阀瓣 Disc	不锈钢 Stainless steel	重锤 Hammer	铸铁 Cast iron
阀座 Seat	不锈钢 Stainless steel		



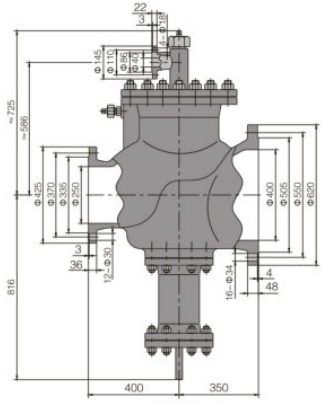
GA49H-16型结构图 Structure

F2-250/400型主安全阀 Main safety valve

用途 Use

F_2-250/400型主安全阀和冲量安全阀GA49H-16C(DN40/50)配套适用于电站汽轮机的管线上。当管线压力超过允许值时，冲量安全阀先开启，主阀随之开启；压力降至安全值时，冲量关闭，主安全阀同步关闭，对管线和汽轮机起到安全保护作用。该阀适用温度：≤425℃

F2-250/400 and GA49H-16C (DN40/50) are suitable for power plant steam turbine on the pipeline. When the line pressure exceeds the allowed value, the impulse valve opens, then main valves open; pressure dropped to safe values, then the impulse to close, the primary safety valve sync turned off, play a security role for pipelines and turbines. This valve is suitable for the temperature=425℃



F_2-250/400型结构图 Structure

GA41H-$^{16}_{40}$C、A51H-$^{16}_{40}$C型 单杠杆安全阀 Single lever safety valve

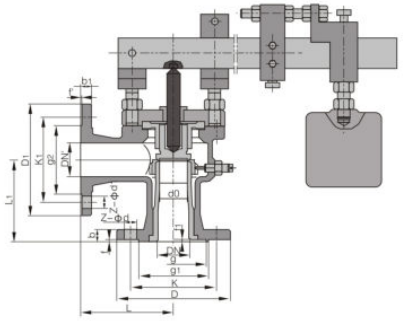
用途 Use

GA41H、A51H型安全阀适用于温度≤450℃的锅炉和压力容器上，防止压力超过允许最高值，作为设备的超压保护装置。介质可为蒸汽、空气。

GA41H, A51H-safety valves are suitable for temperature≤ 450℃ boilers of and pressure container, to prevent the pressure from exceeding and allowing supreme value, as a device of overpressure protection device. The medium is steam, air.

主要连接尺寸 Main connection size

公称通径DN	d_0	DN'	L	L_1
25	20	25	100	85
32	25	32	115	100
40	32	40	120	110
50	40	50	135	120
65	50	65	140	130
80	65	80	160	135
100	80	100	170	160
125	100	125	190	190
150	125	150	205	195



GA41H、A51H型结构图 Structure

GA49H-4.0 DN25型脉冲式安全阀 Pulse type safety valve

用途 Use

主要用于电站锅炉、压力容器、减温减压装置等设备，防止压力超过允许最高压力值，保证设备安全运行。

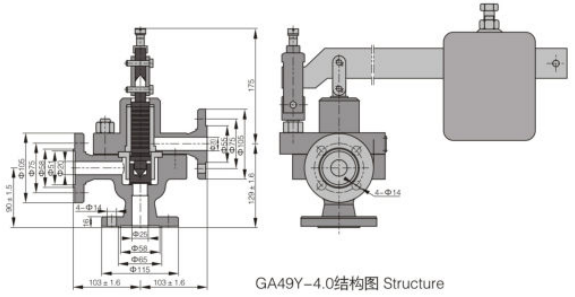
Mainly used in boilers, pressure vessels, pressure reduction device and other equipment, to prevent the pressure from exceeding and allowing Supreme pressure value, guarantee the safe operation of the equipment.

A49H-40型 主安全阀 Main safety valve

用途 Use

本阀主要用于电站锅炉、压力容器、减温减压装置上使用，防止压力超过允许最高压力值，保证设备安全运行。

The valve is mainly used in boilers, pressure vessels, pressure reduction device to prevent the pressure from exceeding and allowing Supreme pressure value, guarantee the safe operation of the equipment.



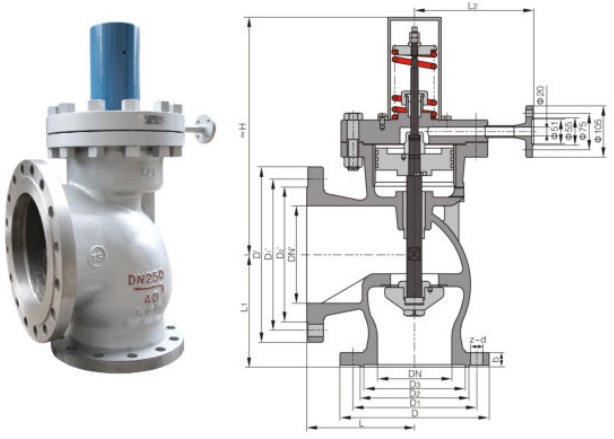
GA49Y-4.0结构图 Structure

结构简述 Structure outlined

1、当介质压力升高到整定压力时，冲量安全阀打开，介质从脉冲管进入主安全阀的活塞室，推动活塞下降，使阀门自动打开，当冲量阀关闭时，阀瓣又自动关闭。

2、密封面用钴基镍不锈钢堆焊而成，阀瓣经热处理，提高了耐磨性和抗冲蚀性。

1. When the medium pressure rises to the set pressure, the impulse valve opens, the media goes into the pulse tube of the main valve piston chamber, push the piston down to let the valve open automatically. When the impulse valve is closed, the valve is automatically closed.
2. Sealing surface is made of cobalt-nickel stainless steel reactor, after the heat treatment of the disc, improve the wear resistance and erosion resistance.



A49H-40型结构图 Structure

主要连接尺寸 Main connection size

型号	公称通径 DN	尺寸															
		L	L_1	L_2	H	D	D_1	D_2	D_3	b	z-d	DN'	D_1'	D_2'	D_3'	b_1'	z'-d'
A49H-40	150	220	230	240	486	300	250	218	204	30	8-25	200	360	310	278	34	12-25
A49H-40	200	270	295	330	615	375	320	285	260	38	12-30	300	485	430	390	40	16-30
A49H-40	250	300	350	370	670	445	385	345	313	42	12-34	350	550	490	450	44	16-34

冲量安全装置说明 Description of impulse safety device

用途 Use

冲量安全装置用在电站锅炉或受压容器上，防止介质压力超过允许值，以保证锅炉或受压容器的安全。

Impulse safety device is used on the boiler or pressure vessel to prevent media pressure exceeds the allowing value in order to guarantee the safety of the boiler or pressure vessel.

特点 Feature

冲量安全装置为脉冲安全阀、主安全阀配套使用，具有排放能力大，调整方便，机械与电器双保护，安装维护方便等特点。

Impulse safety device is for supporting the use of pulse safety valve, main safety valve, it has the feature that discharge capacity, easy to adjust and electric dual protection, easy for installation and maintenance and so on.

工作原理 Working principle

当介质压力低于整定压力时，脉冲安全阀在弹簧力(或重锤)的作用下密封，主安全阀在介质压力作用下密封，当介质压力超过整定压力时，脉冲安全阀开启，蒸汽进入主安全阀活塞室，使主安全阀开启，对外排气当压力降到回座值时，脉冲安全阀关闭，切断进入主安全阀活塞室的蒸汽，主安全阀在弹簧和介质作用力下自行关闭。

When the medium pressure below the set pressure, pulse valve spring force (or weight) of the role of seals, the main valve sealed under media pressure, when the medium pressure exceeds the set pressure, pulse valve open, the steam enters main valve piston chamber, so that the main valve to open, external exhaust when the pressure drops back seat value, pulse valve closed, cutting off the main valve piston into the steam room, the main valve in the spring and force their own media close.

结构简述 Structure outlined

1、冲量安全装置如图所示，主要由脉 冲安全阀、主安全阀、截止阀、节流阀等所组成。

2、脉冲安全阀为弹簧式或重锤杠杆式，通过调节弹簧压缩量或调整重锤在杠杆上的位置来调节安全装置的开启压力。脉冲安全阀还分别带有用来开启或关闭用的电磁铁，机械和电器动作互不干扰。

3、主安全阀结构如图所示，排气端为法兰连接形式，它主要由阀体、缓冲阀、活塞室、阀瓣等零件组成。阀门采用压力自紧式密封结构，介质压力越高，密封性能越好，缓冲阀在主安全阀动作过程中起缓冲作用，避免密封面或阀瓣损坏。

4、脉冲安全阀上部带有开启和关闭电磁铁，关闭用电磁铁平时可以不通电，但当阀门密封面泄漏时，可长期通电使阀门密封，或当机械调整回座压力过低时，接通电源促使阀瓣回座，以获得较高的回座压力。

1. The impulse safety device, as shown mainly by the pulse valve, the main valve, globe valve, throttle, etc. components.
2. The pulse valve is a spring or a weight lever type , by adjusting the spring compression lever to adjust the position of the weight to adjust the opening pressure of the safety device. Pulse valve is also used to turn on or off each with electromagnets used in mechanical and electrical operation of interfering.
3. Main valve structure as shown, the exhaust side of the flange connection form, which is mainly made up of body, cushion valve, piston chamber, valve and other parts. Valve by pressure from tight seal structure, the higher the medium pressure, the better sealing performance, cushion valve dampening effect on the course of action in the main valve to avoid sealing surface or valve damage.
4. Pulse valve opens and closes with the upper electromagnet electromagnet usually can not turn off electricity, but the sealing surface of the valve leak, the valve seal may be long-term power, or mechanical adjustment back seat when the pressure is too low, power urge the valve back seat, back seat to get a high pressure.

安装说明 Installation Instructions

1、主安全阀应与冲量安全阀配套安装使用。冲量安全阀引出管与主安全阀的入口管之间应保持一段较长的距离，电接点压力表和主安全阀入口管之间的距离不得小于5倍主安全阀入口径，以免主安全阀动作时，因排气影响电接点压力表和冲量安全阀工作稳定性。

2、冲量安全阀安装前，必须将管路冲洗干净。

3、主安全阀与冲量安全阀必须垂直安装，主安全阀在安装焊接后，要进行局部热处理。

4、主安全阀应坚固在构架上，该构架应能承受主安全阀排气时产生的反作用力，主安全阀的排气管应有专门的吊架，避免排气管的重量与其它作用力作用在主安全阀上及主安全阀与排气管之间的连接法兰上，在排气管的最低点，应考虑疏水，以免主安全阀排气时产生水击。主安全阀活塞室上部的三圈填料必须压紧，要压缩到填料压盖下平面与活塞上平面接触为止，然后用细铁丝固定好压紧螺栓，以免泄漏而造成主阀拒跳。

5、冲量安全阀与电磁铁一起装在一个专门的支架上，阀门上杠杆与电磁铁连接要灵活，不得有卡涩现象。冲量阀应装在便于维修和调试，灰尘少、空气干燥、无振动的地方，其环境□芭不应高于70℃，相对湿度不应超过80%。

6、为了保证弹簧式冲量安全阀动作自如，冲量安全阀回座杠杆头部的圆弧部分与冲量安全阀阀杆端部的距离应调到：冲量安全阀实际行程+1 mm(用护罩顶部M10紧固螺钉调节)。

1. The main safety valve should support impulse valve installation. Impulse valve leads to a longer distance should be maintained between the pipe and the main valve inlet tube from the electrical contacts and the main valve between the inlet pipe shall not be less than five times the diameter of the main valve into in order to avoid the main valve when the action, because the exhaust affect the electrical contacts and the impulse valve job stability.
2. Before the installation of impulse valve, the pipeline must be flushed clean.
3. The main valve and the impulse valve must be installed vertically, the main valve is installed after welding, heat treatment to be carried out locally.
4. The main safety valve should be firm on the architecture, the architecture should be able to withstand the reaction force generated when the main exhaust valve, the main valve exhaust pipe hanger should specifically avoid the weight of the exhaust pipe and other effects force acting on the main valve connecting flange and between the main valve and the exhaust pipe on the exhaust pipe at the lowest point should be considered hydrophobic, in order to avoid water hammer when the main valve exhaust. The upper chamber of the main valve piston filler must be pressed three times, to the packing gland to compress the plane comes into contact with the piston on the plane, and then with a fine wire fixed bolts, causing the main valve to prevent leakage and refused to jump.
5. The impulse valve and solenoid mounted are installed on a special bracket, Leverage and solenoid valve should connect flexibly, without a jam phenomenon. Impulse valve should be installed in the ease of maintenance and debugging, less dust, air dry, vibration-free place, its environment Dang Barbie should not exceed 70℃, relative humidity should not exceed 80%.
6. In order to ensure the spring impulse valve moves freely from the arc portion impulse valve lever back seat and head impulse valve stem end should be transferred: the actual impulse valve stroke +1mm (with a guard at the top M10 fastening screw adjustment).

A49Y-100型高压冲量安全装置(H) High pressure impulse safety device

用途 Use

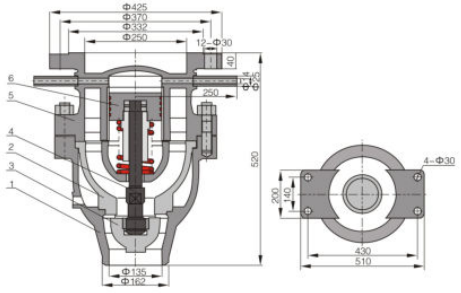
本装置供蒸汽工作压力为P=3.92MPa；T≤450℃的电站锅炉上使用，防止锅炉内介质压力超过允许值，以保证锅炉安全运行。

主安全阀A49Y-100 DN150应与冲量安全阀A49Y-100 DN25配套安装使用。

The device used for steam working pressure P=3.92MPa; T=450℃ of power station boilers, boiler to prevent the media pressure exceeds the allowable value, in order to ensure safe operation of boilers.

性能规范 Performance specification

公称压力 PN(MPa)	公称通径 DN(mm)	试验压力(MPa) Test pressure		最大工作压力 Maximum working pressure(MPa)	最大工作温度 Maximum operating temperature(℃)
		强度 Strength	密封 Seal		
10.0	150	15.0	4.0	4.0	≤450



A49Y-100 DN150型结构图 Structure

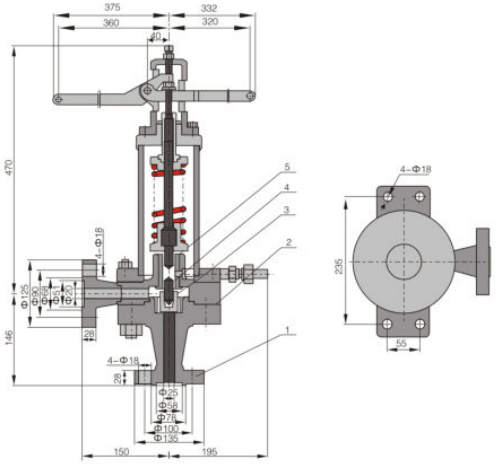
主要零件材料 Main parts and materials

1. 主安全阀 The main valve

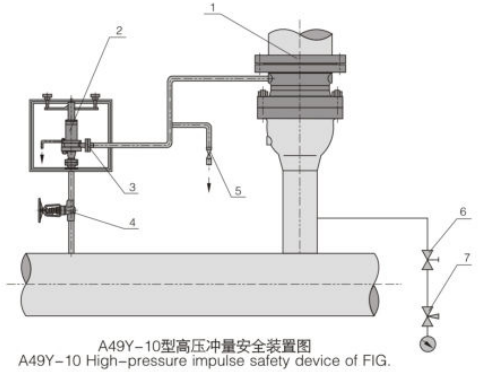
序号 No.	零件名称 Name	材料 Material
1	阀体 Body	碳钢 Carbon Steel
2	阀座 Seat	碳钢+钴基硬质合金 Carbon steel+cobalt-based alloy
3	阀瓣 Disc	碳钢+钴基硬质合金 Carbon steel+cobalt-based alloy
4	阀杆 Stem	渗氮钢 Nitriding steel
5	阀盖 Bonnet	碳钢 Carbon Steel
6	活塞 Piston	不锈钢 Stainless steel

2. 冲量安全阀 Impulse valve

序号 No.	零件名称 Name	材料 Material
1	阀体 Body	碳钢 Carbon Steel
2	阀盖 Bonnet	碳钢 Carbon Steel
3	阀瓣 Disc	不锈钢+钴基硬质合金 Stainless steel+cobalt-based alloy
4	阀杆 Stem	不锈钢 Stainless steel
5	导向套 Guide sleeve	不锈钢 Stainless steel



A49Y-100 DN25型结构图 Structure



A49Y-10型高压冲量安全装置图
A49Y-10 High-pressure impulse safety device of FIG.

1. 主安全阀 The main valve DN150；PN100
2. 冲量安全阀 Impulse valve DN25；PN100
3. 法兰、螺栓、螺母 Flanges, bolts, nuts
4. 节流阀 Throttle valve DN10；PN320
5. 截止阀 Globe valve DN32；PN320
6. 截止阀 Globe valve DN10；PN320
7. 三通阀 Three-way valve DN4； PN320

A49Y-Pw5410V型高压冲量安全装置(H) High pressure impulse safety device

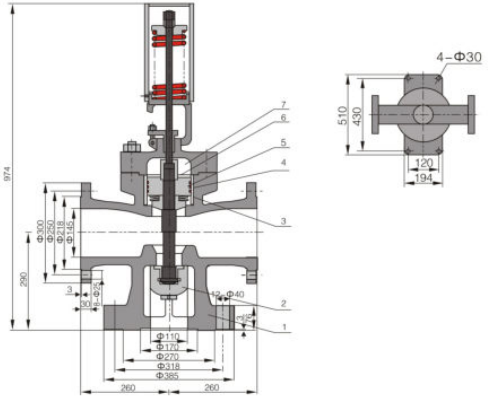
用途 Use

本装置供蒸汽工作压力为P=9.81MPa；t≤540℃的电站锅炉上使用，防止锅炉内介质压力超过允许值，以保证锅炉安全运行。

主安全阀A49Y-Pw5410V DN125应与冲量安全阀A49Y-Pw5410V DN20配套安装使用。

The device is for steam working pressure of P=9.81MPa; T=540℃ of power station boilers, boiler to prevent the media pressure exceeds the allowable value, in order to ensure safe operation of boilers .

A49Y-Pw5410V DN125 should be installed with A49Y-Pw5410V DN20.



A49Y-Pw5410V型 DN125型结构图 Structure

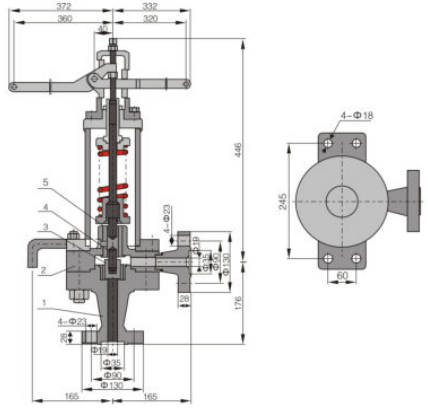
主要零件材料 Main parts and materials

1. 主安全阀 The main valve

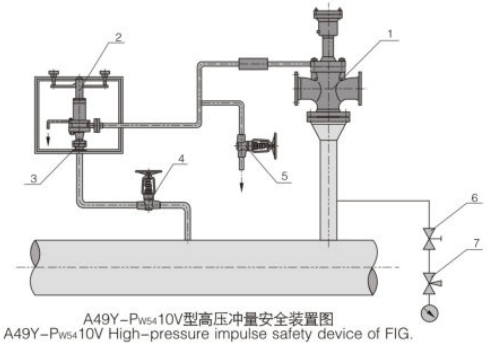
序号 No.	零件名称 Name	材料 Material
1	阀体 Body	铬钼钒钢 Chrome-molybdenum steel
2	阀瓣 Disc	铬钼钒钢+钴基硬质合金 Chrome-molybdenum steel+cobalt-based alloy
3	阀座 Seat	铬钼钒钢+钴基硬质合金 Chrome-molybdenum steel+cobalt-based alloy
4	阀杆 Stem	渗氮钢 Nitriding steel
5	活塞 Piston	不锈钢 Stainless steel
6	活塞套 Piston bush	不锈钢 Stainless steel
7	活塞环 Piston ring	不锈钢 Stainless steel

2. 冲量安全阀 Impulse valve

序号 No.	零件名称 Name	材料 Material
1	阀体 Body	铬钼钒钢 Chrome-molybdenum steel
2	阀盖 Bonnet	铬钼钒钢 Chrome-molybdenum steel
3	阀瓣 Disc	不锈钢+钴基硬质合金 Stainless steel+cobalt-based alloy
4	阀杆 Stem	不锈钢 Stainless steel
5	导向套 Guide sleeve	不锈钢 Stainless steel



A49Y-Pw5410V DN20型结构图 Structure



A49Y-Pw5410V型高压冲量安全装置图
A49Y-Pw5410V High-pressure impulse safety device of FIG.

1. 主安全阀 The main valve DN125；Pw5410V
2. 冲量安全阀 Impulse valve DN20；Pw5410V
3. 法兰，螺栓，螺母 Flanges, bolts, nuts
4. 截止阀 Globe valve DN20；Pw5417V
5. 节流阀 Throttle valve DN10；PN320
6. 截止阀 Globe valve DN10；Pw5417V
7. 三通阀 Three-way valve DN4；PN320

A49Y-Pw5414V型高压冲量安全装置(H) High pressure impulse safety device

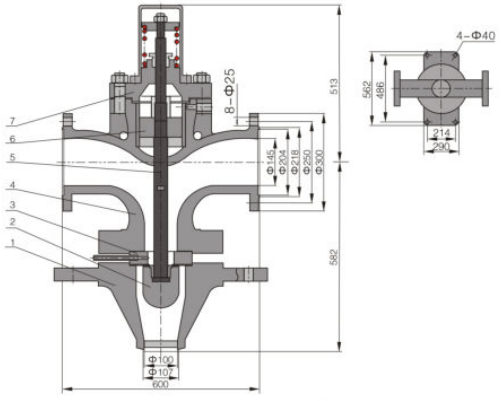
用途 Use

本装置供蒸汽工作压力为P=13.72MPa；t≤540℃的电站锅炉上使用，防止锅炉内介质压力超过允许值，以保证锅炉安全运行。

主安全阀A49Y-Pw5410V DN125应与冲量安全阀A49Y-Pw5410V DN20配套安装使用。

The device is for steam working pressure of P=13.72MPa; T=540℃ of power station boilers, boiler to prevent the media pressure exceeds the allowable value, in order to ensure safe operation of boilers .

A49Y-Pw5410V DN125 should be installed with A49Y-Pw5410V DN20.



A49Y-Pw5414V DN100型结构图 Structure

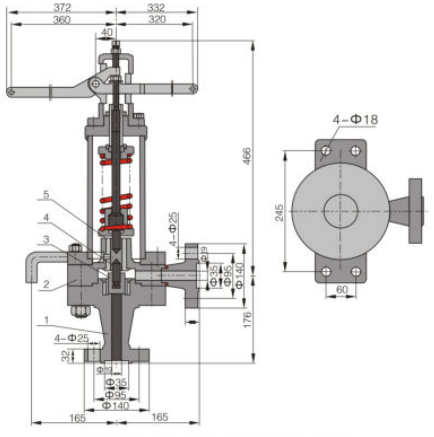
主要零件材料 Main parts and materials

1. 主安全阀 The main valve

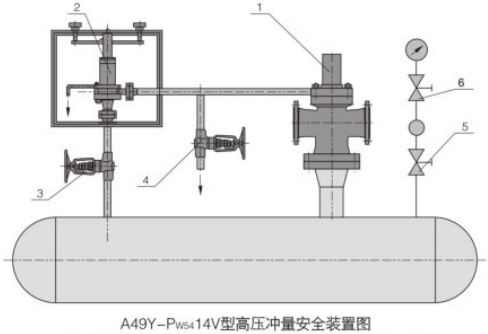
序号 No.	零件名称 Name	材料 Material
1	下阀体 Down body	铬钼钒钢 Chrome-molybdenum steel
2	阀瓣 Disc	铬钼钒钢+钴基硬质合金 Chrome-molybdenum steel+cobalt-based alloy
3	阀座 Seat	铬钼钒钢+钴基硬质合金 Chrome-molybdenum steel+cobalt-based alloy
4	上阀体 Upper body	铬钼钒钢 Chrome-molybdenum steel
5	阀杆 Stem	铬钼钒钢 Chrome-molybdenum steel
6	活塞 Piston	不锈钢 Stainless steel
7	阀盖 Bonnet	铬钼钒钢 Chrome-molybdenum steel

2. 冲量安全阀 Impulse valve

序号 No.	零件名称 Name	材料 Material
1	阀体 Body	铬钼钒钢 Chrome-molybdenum steel
2	阀盖 Bonnet	铬钼钒钢 Chrome-molybdenum steel
3	阀瓣 Disc	不锈钢+钴基硬质合金 Stainless steel+cobalt-based alloy
4	阀杆 Stem	不锈钢 Stainless steel
5	导向套 Guide sleeve	不锈钢 Stainless steel



A49Y-Pw5414V DN20型结构图 Structure



A49Y-Pw5414V型高压冲量安全装置图
A49Y-Pw5414V High-pressure impulse safety device of FIG.

1. 主安全阀 The main valve DN100； PW5414V
2. 冲量安全阀 Impulse valve DN20； PW5414V
3. 截止阀 Globe valve DN20； Pw5417V
4. 节流阀 Throttle valve DN10； PN320
5. 截止阀 Globe valve DN10； Pw5417V
6. 三通阀 Three-way valve DN4； PN320

A69Y-P5414V DN100型高压主安全阀(W) High pressure main safety valve

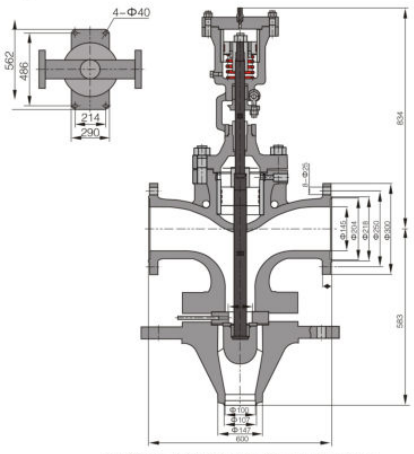
用途 Use

本型号安全阀主要用于电站锅炉、压力容器、减温减压装置设备，防止压力超过允许最高压力值，保证设备安全运行，A69Y-P5414V DN100主安全阀与A49Y-P5414V DN20脉冲安全阀配套使用。

This model is mainly used for power plant boiler safety valve, pressure vessels, pressure reducer device to prevent the pressure exceeds the allowable maximum pressure to ensure the safe operation of equipment, A69Y-P5414V DN100 should be used with A49Y-P5414V DN20.

主要零件材料 Main parts and materials

序号 No.	零件名称 Name	材料 Material
1	下阀体 Down body	铬钼钒钢 Chrome-molybdenum steel
2	阀瓣 Disc	铬钼钒钢+钴基硬质合金 Chrome-molybdenum steel+cobalt-based alloy
3	阀座 Seat	铬钼钒钢+钴基硬质合金 Chrome-molybdenum steel+cobalt-based alloy
4	上阀体 Upper body	铬钼钒钢 Chrome-molybdenum steel
5	阀杆 Stem	铬钼钒钢 Chrome-molybdenum steel
6	活塞 Piston	不锈钢 Stainless steel
7	阀盖 Bonnet	铬钼钒钢 Chrome-molybdenum steel



A69Y-P5414V DN100型结构图 Structure

A49Y-P5414V DN20型弹簧脉冲式安全阀(W) Impulse safety valve

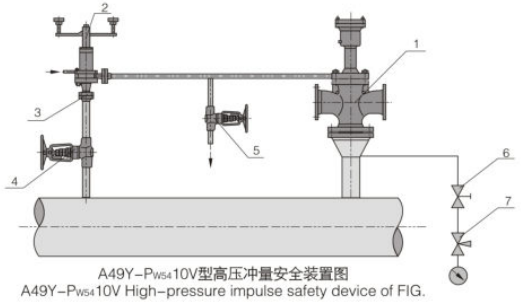
用途 Use

本型号安全阀主要用于电站锅炉、压力容器、减温减压装置设备，防止压力超过允许最高压力值，保证设备安全运行，A49Y-P5414V DN20安全阀与A69Y-P5414V DN10主安全阀配套使用。

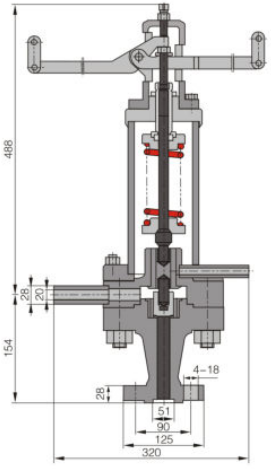
This model is mainly used for power plant boiler safety valve, pressure vessels, pressure reducer device to prevent the pressure exceeds the allowable maximum pressure to ensure the safe operation of equipment, A49Y-P5414V DN20 should be used with A69Y-P5414V DN10.

主要零件材料 Main parts and materials

序号 No.	零件名称 Name	材料 Material
1	阀体 Body	铬钼钒钢 Chrome-molybdenum steel
2	阀盖 Bonnet	铬钼钒钢 Chrome-molybdenum steel
3	阀瓣 Disc	不锈钢+钴基硬质合金 Stainless steel+cobalt-based alloy
4	阀杆 Stem	不锈钢 Stainless steel
5	导向套 Guide sleeve	不锈钢 Stainless steel



A49Y-PW5410V型高压冲量安全装置图
A49Y-PW5410V High-pressure impulse safety device of FIG.



A49Y-P5414V DN20型结构图 Structure

1. 主安全阀 The main valve DN100；P5414V
2. 弹簧脉冲式安全阀 DN20；P5414V
3. 法兰，螺栓，螺母 Flanges, bolts, nuts
4. 截止阀 Globe valve DN20；P5417V
5. 节流阀 Throttle valve DN10；PN320
6. 截止阀 Globe valve DN10；P5417V
7. 三通阀 Three-way valve DN4；PN320

A69Y-P5410V DN150型高压主安全阀(W) High pressure main safety valve

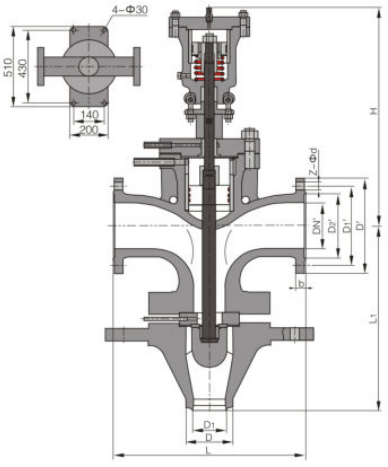
用途 Use

本型号安全阀主要用于电站锅炉、压力容器、减温减压装置设备，防止压力超过允许最高压力值，保证设备安全运行，A69Y-P5410V DN150主安全阀与A49H-P5410V DN20脉冲安全阀配套使用。

This model is mainly used for power plant boiler safety valve, pressure vessels, pressure reducer device to prevent the pressure exceeds the allowable maximum pressure to ensure the safe operation of equipment, A69Y-P5410V DN150 should be used with A49H-P5410V DN20.

主要零件材料 Main parts and materials

序号 No.	零件名称 Name	材料 Material
1	下阀体 Down body	铬钼钒钢 Chrome-molybdenum steel
2	阀瓣 Disc	铬钼钒钢+钴基硬质合金 Chrome-molybdenum steel+cobalt-based alloy
3	阀座 Seat	铬钼钒钢+钴基硬质合金 Chrome-molybdenum steel+cobalt-based alloy
4	上阀体 Upper body	铬钼钒钢 Chrome-molybdenum steel
5	阀杆 Stem	铬钼钒钢 Chrome-molybdenum steel
6	活塞 Piston	不锈钢 Stainless steel
7	阀盖 Bonnet	铬钼钒钢 Chrome-molybdenum steel



A69Y-P5410V DN150型结构图 Structure

GA49H-P5410V DN20型脉冲式安全阀(W) Impulse safety valve

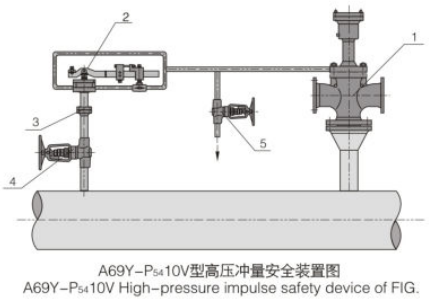
用途 Use

本型号安全阀主要用于电站锅炉、压力容器、减温减压装置设备，防止压力超过允许最高压力值，保证设备安全运行，GA49H-P5410V DN20安全阀与A69Y-P5410V DN150主安全阀配套使用。

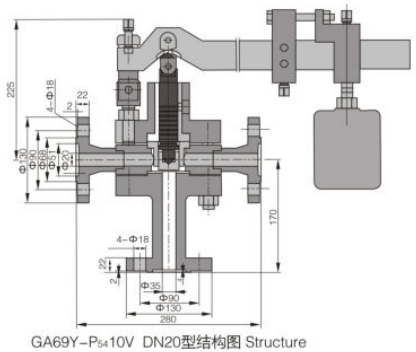
This model is mainly used for power plant boiler safety valve, pressure vessels, pressure reducer device to prevent the pressure exceeds the allowable maximum pressure to ensure the safe operation of equipment, GA49H-P5410V DN20 should be used with A69Y-P5410V DN150.

主要零件材料 Main parts and materials

序号 No.	零件名称 Name	材料 Material
1	阀体 Body	铬钼钒钢 Chrome-molybdenum steel
2	阀盖 Bonnet	铬钼钒钢 Chrome-molybdenum steel
3	阀瓣 Disc	不锈钢+钴基硬质合金 Stainless steel+cobalt-based alloy
4	阀杆 Stem	不锈钢 Stainless steel
5	导向套 Guide sleeve	不锈钢 Stainless steel



A69Y-P5410V型高压冲量安全装置图
A69Y-P5410V High-pressure impulse safety device of FIG.



GA69Y-P5410V DN20型结构图 Structure

1. 主安全阀 The main valve DN150；P5410V
2. 脉冲式安全阀 DN20；P5410V
3. 法兰，螺栓，螺母 Flanges, bolts, nuts
4. 截止阀 Globe valve DN20；P5410V
5. 节流阀 Throttle valve DN20；P5410V

A69Y-100 DN150型高压主安全阀(W) High pressure main safety valve

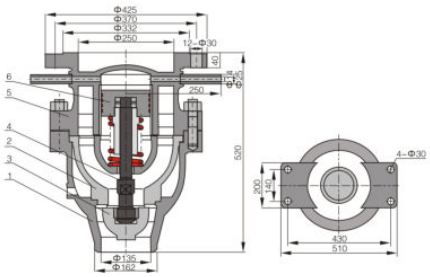
用途 Use

本型号安全阀主要用于电站锅炉、压力容器、减温减压装置设备，防止压力超过允许最高压力值，保证设备安全运行，A69Y-100 DN150主安全阀与GA49H-100 DN20脉冲安全阀配套使用。

This model is mainly used for power plant boiler safety valve, pressure vessels, pressure reducer device to prevent the pressure exceeds the allowable maximum pressure to ensure the safe operation of equipment, A69Y-100 DN150 should be used with GA49H-100 DN20.

主要零件材料 Main parts and materials

序号 No.	零件名称 Name	材料 Material
1	阀体 Body	碳钢 Carbon Steel
2	阀座 Seat	碳钢+钴基硬质合金 Carbon steel+cobalt-based alloy
3	阀瓣 Disc	碳钢+钴基硬质合金 Carbon steel+cobalt-based alloy
4	阀杆 Stem	渗氮钢 Nitriding steel
5	阀盖 Bonnet	碳钢 Carbon Steel
6	活塞 Piston	不锈钢 Stainless steel



A69Y-100 DN150型结构图 Structure

GA49H-100 DN20型脉冲式安全阀(W) Impulse safety valve

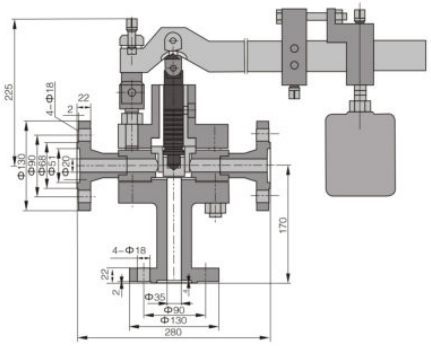
用途 Use

本型号安全阀主要用于电站锅炉、压力容器、减温减压装置设备，防止压力超过允许最高压力值，保证设备安全运行，GA49H-100 DN20安全阀与A69Y-100 DN150主安全阀配套使用。

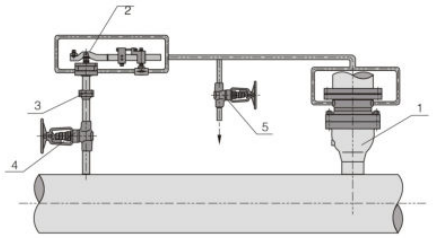
This model is mainly used for power plant boiler safety valve, pressure vessels, pressure reducer device to prevent the pressure exceeds the allowable maximum pressure to ensure the safe operation of equipment, GA49H-100 DN20 should be used with A69Y-100 DN150.

主要零件材料 Main parts and materials

序号 No.	零件名称 Name	材料 Material
1	阀体 Body	铬钼钒钢 Chrome-molybdenum steel
2	阀盖 Bonnet	铬钼钒钢 Chrome-molybdenum steel
3	阀瓣 Disc	不锈钢+钴基硬质合金 Stainless steel+cobalt-based alloy
4	阀杆 Stem	不锈钢 Stainless steel
5	导向套 Guide sleeve	不锈钢 Stainless steel



GA49H-100 DN20型结构图 Structure



A69Y-P5410V型高压冲量安全装置图
A69Y-P5410V High-pressure impulse safety device of FIG.

1. 主安全阀 The main valve DN150；PN100
2. 脉冲式安全阀 DN20；PN100
3. 法兰，螺栓，螺母 Flanges, bolts, nuts
4. 截止阀 Globe valve DN20；PN100
5. 节流阀 Throttle valve DN10；PN320

美标安全阀系列
API safety valve series

TA526磅级系列安全阀简介 Pound-grade series safety valve's introduction

性能特点

整定压力偏差：≤±3%
超过压力：≤±10%
启闭压差：≤±15%
密封性能：符合API527标准规定的密封要求

Performance feature

Set pressuretolerance: ≤±3%
Over-pressure: ≤±10%
Blowdown: ≤±15%
Sealing performance: accord the sealing request of API 527standard

结构特点

1、结构紧凑，造型美观，铸件多数采用精密铸造，表面光洁。
2、阀座和阀体采用分体式，阀座易于加工，密封面易研磨成镜面，保证密封，且便于装拆维修。
3、设计合理的反冲盘与调节圈相匹配，调整方便，使安全阀开启迅速，回座及时，可得到理想的启闭压差。
4、阀座和阀瓣均堆焊钴基硬质合金，耐磨，耐冲蚀，密封有保证，延长了使用寿命。
5、背压平衡式安全阀采用军品波纹管制作，能有效地消除背压对起跳压力的影响，还能对有蚀有毒介质起严密的隔离作用，防止介质腐蚀阀门内件和污染环境。
6、弹簧作为关键零件均作两次24小时恒温处理，确保其在工作状态中刚度稳定，起跳动作正确。
7、对阀体、阀座等受压件都作严格的耐压试验，确保了使用时的安全、可靠。

Structure features

1. As foundry goods have been founded precisely, it has tight structure, graceful appearance, smooth and cleaning surface.

2. The seat and the body have been adopted the subsection design, the seat is easy to process, the sealing face is rubbed into mirror face, which ensures sealing, and is convenient to dismantle, install and maintain.

3. The reasonable design of disc holder with the adjusting ring so that safety valves can be turned on quickly in the respect of adjust and obtain a perfect blow down difference.

4. Both the seat and body that are made of welding stellite are wear-resistant and erosive-resistant so as to ensure sealing and to prolong the life of use.

5. The back pressure balance safety valve which is made of bellows is effective to eliminate the back pressure influence on set pressure, and have tightly segregant function for erosive and poison materials in order to prevent medium from eroding inner parts of valves and polluting environment.

6. The spring as a key part is treated for 24 hours under the constant temperature twice so as to ensure the stable firmness at work and the proper skip.

7. The parts of the seat and the body have been tested press-resistance so as to ensure the safety and reliability at work.

TA526磅级系列安全阀型号编制 Pound-grade series safety valve's model establishment

TFO、TFB、TFLB、TFBP、TFOH系列型号编制 Model preparation

通径进口×流道×出口 Import diameter × Runner × export	类型 Model	进口法兰 Inlet flange		密封形式 Sealing form	材料 Material	保护罩及提升扳手 Shielding and wrench
		压力级 Class	温度范围℃(° F) Temperature range			
1" D 2"至 8" T2 10"	TFO-常规式 TFB-波纹管式 TFL-液体内件常规式 TFLB-液体内件波纹管式 TFBP-波纹管式带背压平衡活塞 TFLBP-波纹管式带液体内件及背压平衡活塞 TFOH-常规式JOS 带开放阀盖，用于ASME第VIII卷蒸汽，温度到+427℃(+800° F) TFO-General TFB-Corrugated tube TFL-Liquid-General TFLB-Liquid stainless steel corrugated tube TFBP-Bellows type back pressure balance piston TFLBP-Corrugated tube with liquid and back-pressure balance piston TFOH-General JOS with opened bonnet, used fot volume VIII of the ASME steam temperature to+427℃(+800° F)	1-150 2-300 3-300 4*-600 5-900 6-1500 7-2500 *流道T和T2的法兰为300	2--268至60 (-450至-76) 4--59至-30 (-75至-21) 5*--29至+343 (-20至+650) 6-+344至+427 (+651至+800) 4-+428至+538 (+801至+1000) *开放式阀盖，铬钢弹簧的TFOH型可用到+427℃(+800° F) Opened bonnet, chrome steel springs TFOH type available to +427℃ (+800° F)	无-金属 No - Metal OR-O型圈 OR-O-rings 订购软密封时应规定材料 Specify materials when order soft sealing	无-标准材料 S-全316不锈钢 S4-除体、盖、保护罩和弹簧外全316不锈钢 M-全蒙乃尔，弹簧为蒙乃尔或因科镍 M1-阀座、阀瓣为蒙乃尔 M4-除体、盖、保护罩、弹簧和弹簧座外全蒙乃尔 M5-除弹簧和弹簧座外全蒙乃尔 H-全哈氏C H1-阀座、阀瓣为哈氏C H4-除体、盖、保护罩、弹簧和弹簧座外全哈氏C H5-除弹簧和弹簧座外全哈氏C N2-NACE等级2 TFO：因科镍X750弹簧，316不锈钢弹簧座、阀杆及调整螺杆 TFB：弹簧喷涂铝 No-standard material S-316 stainless steel S4-in addition to the body, cover, cover and spring all 316 stainless steel M-monel, spring for monel or for nickel M1-seat and disc for monel M4-in addition to the body and cover, shield, springs and spring seat outside the monel M5-in addition to the spring and spring seat all monel H-all hartz C H1-seat and disc for hartz C H4-in addition to the body and cover, shield, springs and spring seat outside the hartz C H5-in addition to the spring and spring seat all hartz C N2-NACE level 2 TFO: nickel X750 spring, 316 stainless steel spring seat, the valve stem and adjusting screw TFB: spring spraying aluminum	J型-螺纹式(标准式) K型-螺纹式 带试验压杆 C型-开放式 带扳手 D型-封闭式 带扳手 E型-封闭式 带扳手 带试验压杆 J-Thread type (Standard type) K-Thread type Belt test compressive bar C-Opened With a wrench D-Enclosed With a wrench E-Enclosed With a wrench With test lever
						特种保护罩 Special cover
						A型-螺纹式 B型-螺纹式 带试验压杆 G型-螺纹式 带试验压杆 A-Thread type B-Thread type With test lever G-Thread type With test lever

可选项 Optional

●法兰密封形式，如环连接
●特殊连接形式
●300磅级出口(非标准配制)
●特种弹簧涂/镀层
●样本中未列出的特殊材料
●Flange sealing forms, such as ring connection
●Special Connection
●300-pound export (non-standard preparation)
●Special spring coating/plating
●Special materials not listed in a sample
●带开启指示器
●硬质合金密封面的阀座及阀瓣
●特殊清洗
●特种油漆或涂层
●特殊检测
●With open indicator
●Valve seat and valve sealing surface carbide
●Special Cleaning
●Special paint or coating
●Special Test

注：1、TFL、TFLB或TFLBP表示带液体内件的TFO、TFB或TFBP，适用于液体、气体及气液两相介质。
2、符合ASME规范第VIII卷蒸汽应用要求的TFOH系列开放阀盖式阀门，其最高使用温度为+427℃(+800° F)。
3、适用于最高整定压力和温度参见43-56页。
4、完整的结构材料列表参见42页。
5、按照ASME规范第VIII卷的要求，用于温度超过+60℃(+140° F)的水，以及用于蒸汽和空气的压力释放阀应带提升扳手。

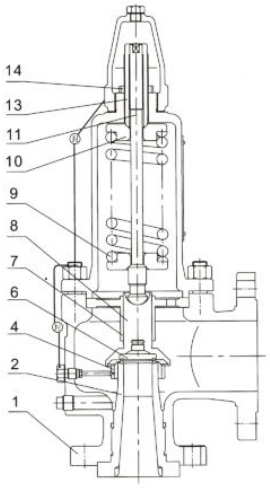
Note: 1. TFL, TFLB or TFLBP liquid means TFO, TFB or TFBP trim with liquid, suitable for liquid, gas and gas-liquid two -phase medium .
2. TFOH series of open valves comply with ASME Code Section VIII, the steam valve cover application requirements, the maximum temperature is +427℃ (+800° F).
3. Apply maximum pressure and temperature. See page 43-56.
4. Complete structural materials. See page 42.
5. In accordance with ASME Code Section VIII requirements for temperature exceeds +60℃ (+140° F) water , and the pressure for steam and air release valve should bring to enhance wrench.

型号示例：1½G2½TFL-46-D表示进口尺寸为1½，流道为G，出口尺寸2½，类型为TFL(液体内件、常规式)，进口法兰压力级为600、温度范围为+344至+427℃，金属对金属密封面，标准材料，配D型保护罩。

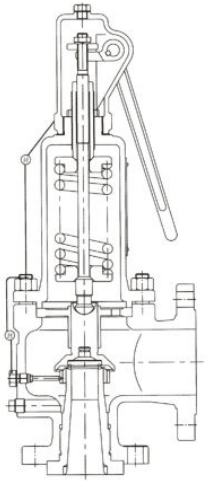
Model example : 1½G2½TFL-46-D means that inlet size is 1½ , the flow channel is G, outlet size 2½, type TFL (liquid inner parts, conventional style) , inlet flange pressure level is 600, temperature range is from +344 to +427℃, metal to metal sealing surface, the standard material, with D-type protective cover.

TA526磅级系列安全阀尺寸规格
TA526 Pound–Grade series safety valve's dimension & specification

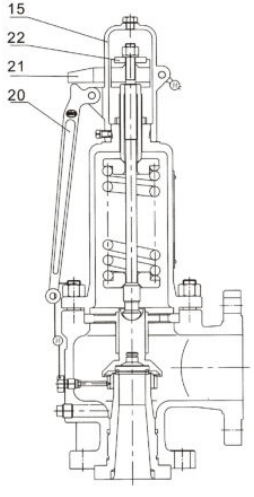
尺寸规格 Dimension & Specification



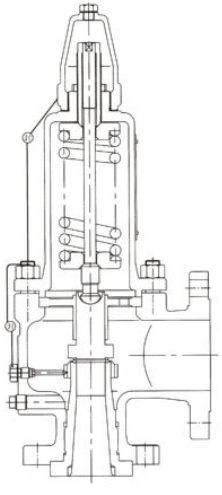
普通型 Ordinary type
TFO–XXXK



普通型 Ordinary type
TFO–XXXE

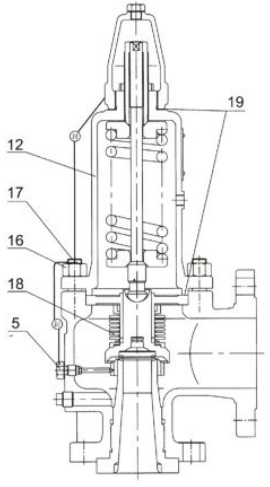


普通型 Ordinary type
TFOH–XXXG

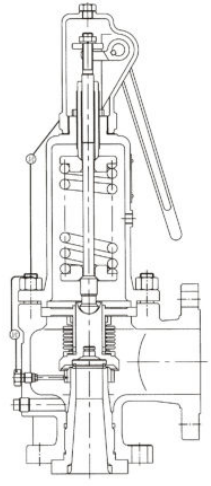


普通型 Ordinary type
TFL–XXXK

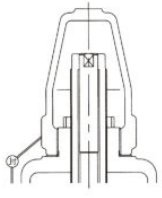
TA526磅级系列安全阀尺寸规格
TA526 Pound–Grade series safety valve's dimension & specification



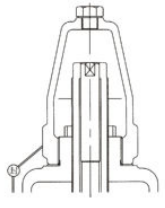
TFB–XXXK



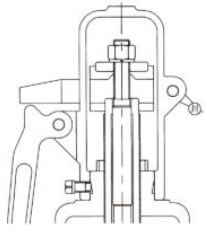
TFB–XXXE



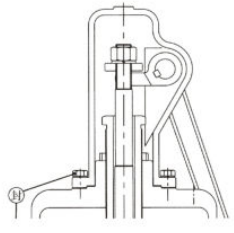
A：螺纹式(J型)
Screwed Cap



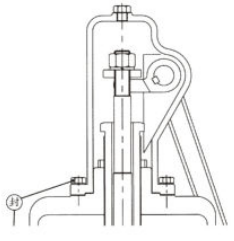
B：带螺塞的螺纹式(K型)
Screwed Cap with Plug



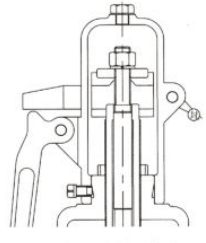
C：杠杆式(C型)
Lifting Lever



D：封闭杠杆式(D型)
Packed Lifting Lever



E：带螺塞的封闭杠杆式(E型)
Packed Lifting Lever with Plug



G：带螺塞的杠杆式(G型)
Lifting Lever with Plug

TA526系列安全阀材料表
TA526 Series safety valve materials

序号 No.	零件名称 Part Name	阀门材料 Valve Materials						
		C	P	R	R3	C6/C9	M	H
1	阀体 Body	WCB	CF8	CF8M	CF3M	WC6/WC9	Monel	Hastl.c
2	阀座 Nozzle	304	304	316	316L	304	Monel	Hastl.c
3	螺塞 Plug	碳钢 C. St	420	420	420	420	420	420
4	调节圈 Nozzle Ring	CF8	CF8	CF8M	CF3M	CF8	Monel	Hastl.c
5	支头螺帽钉 Set Screw	416	304	304	316	304	316L	316L
6	阀瓣 Disc	304	304	316	316L	17-4PH	Monel	Hastl.c
7	导向套 Guide	304	304	316	316L	304	Monel	Hastl.c
8	反冲盘 Disc Holder	304	304	316	316L	304	Monel	Hastl.c
9	弹簧 Spring	合金钢 Alloy.St	合金钢涂四氟 Alloy St Spread Teflon	合金钢涂四氟 Alloy St Spread Teflon	合金钢涂四氟 Alloy St Spread Teflon	合金钢 Alloy.St	合金钢涂四氟 Alloy St Spread Teflon	合金钢涂四氟 Alloy St Spread Teflon
10	弹簧座 Spring Washer	碳钢 C. St	420	420	420	420	420	420
11	阀杆 Stem	420	304	316	316	431	416	416
12	阀盖 Bonnet	WCB	CF8	CF8M	CF3M	WC6/WC9	CF8M	Hastl.c
13	调整螺杆 Adjusting bolt	420	416	416	416	420	420	420
14	锁紧螺母 Adj. Bolt Nut	碳钢 C. St	420	420	420	420	420	420
15	保护罩 Cap	碳钢 C. St	CF8	CF8M	CF3M	碳钢 C. St	CF8M	Hastl.c
16	螺母 Nut	钢 Steel	304	304	304	钢 Steel	304	304
17	螺柱 Bolt	钢 Steel	304	304	304	钢 Steel	304	304
18	波纹管 Bellows	304	316	316	316L	316L	316L	316L
19	垫片 Gaskets	石棉板 Asbestos	氟四 Teflon	氟四 Teflon	氟四 Teflon	V1500	V1500	V1500
20	扳手 Lifting Level	碳钢 C. St	碳钢 C. St	碳钢 C. St	碳钢 C. St	碳钢 C. St	碳钢 C. St	碳钢 C. St
21	横杆 Rail	碳钢 C. St	碳钢 C. St	碳钢 C. St	碳钢 C. St	碳钢 C. St	碳钢 C. St	碳钢 C. St
22	提升螺母 Upgrade Nut	碳钢 C. St	碳钢 C. St	碳钢 C. St	碳钢 C. St	碳钢 C. St	碳钢 C. St	碳钢 C. St

材料对照 Material Contrast								
304	316	316L	410	420	CF8	CF8M	CF3M	17-4PH
06Cr19Ni10	06Cr17Ni12Mo2	022Cr17Ni12Mo2	12Cr13	20Cr13	ZG06Cr19Ni10	ZG06Cr17Ni12Mo2	ZG022Cr17Ni12Mo2	05Cr17Ni4Cu4N6

TA526系列安全阀标准参数
TA526 Series safety valve standard parameter

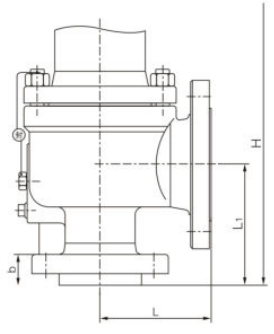
D 通径、压力——温度界限 Size, Pressure——Temperature Limits

流道面积/喉径 Orifice Area/Diameter 0.710cm²/9.5mm

型号 Type		通径(英寸) Size(inch) 进口×流道代号×出口 Inlet×Orifice×Outlet	ANSI法兰磅级 Flange Class		最高整定压力(MPa) Maximum Set Pressure 温度(℃) Temperature			38℃最高背压 Back Pressure Limit 38℃(MPa)		材质 Material	
			进口 Inlet	出口 Outlet	-29℃~38℃	38℃~232℃	232℃~427℃	TFO (TFA42C)	TFB (TFWA42C)	阀体 Body	弹簧 Spring
TFO TFL TFB TFOH	1(150)	1D2	150	150	1.96	1.27	0.55	1.96	1.58	碳钢 C. St 不锈钢 St. St.	合金钢 Alloy.St 合金钢涂四氟 Alloy St Spread Teflon
	2(300)	1D2	300	150	1.96	1.96	1.96	1.96	1.58		
	3(300)	1D2	300	150	5.10	4.24	2.82	1.96	1.58		
	4(600)	1D2	600	150	10.20	8.51	5.68	1.96	1.58		
	5(900)	11/2D2	900	300	15.30	12.72	8.51	4.13	3.45		
	6(1500)	11/2D2	1500	300	25.54	21.23	14.20	4.13	3.45		
	7(2500)	11/2D3	2500	300	41.37	35.40	23.65	5.10	3.45		

尺寸 Dimensions mm

型号 Type		面心距 Center to Face 进口 Inlet L	出口 Outlet L1	法兰阀座总厚 Total Thickness of Flange and Nozzle b	近似高度 Approximate Height H 阀帽形式 Cap Type A	C	D
TFO TFL TFB TFOH	1(150)	115	105	20	350	380	380
	2(300)	115	105	22	350	380	380
	3(300)	115	105	22	350	380	380
	4(600)	115	105	25	350	380	380
	5(900)	140	105	36	460	480	500
	6(1500)	140	105	36	460	480	500
	7(2500)	178	140	42	490	520	540



TA526系列安全阀标准参数
TA526 Series safety valve standard parameter

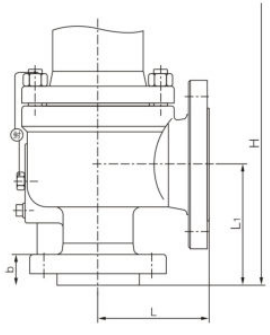
E 通径、压力——温度界限 Size, Pressure——Temperature Limits

流道面积/喉径 Orifice Area/Diameter 0.710cm²/9.5mm

型号 Type		通径(英寸) Size(inch) 进口×流道代号×出口 Inlet×Orifice×Outlet	ANSI法兰磅级 Flange Class		最高整定压力(MPa) Maximum Set Pressure 温度(℃) Temperature			38℃最高背压 Back Pressure Limit 38℃(MPa)		材质 Material	
			进口 Inlet	出口 Outlet	-29℃~38℃	38℃~232℃	232℃~427℃	TFO (TFA42C)	TFB (TFWA42C)	阀体 Body	弹簧 Spring
TFO TFL TFB TFOH	1(150)	1E2	150	150	1.96	1.27	0.55	1.96	1.58	碳钢 C. St 不锈钢 St. St.	合金钢 Alloy.St 合金钢涂四氟 Alloy St Spread Teflon
	2(300)	1E2	300	150	1.96	1.96	1.96	1.96	1.58		
	3(300)	1E2	300	150	5.10	4.24	2.82	1.96	1.58		
	4(600)	1E2	600	150	10.20	8.51	5.68	1.96	1.58		
	5(900)	11/2E2	900	300	15.30	12.72	8.51	4.13	3.45		
	6(1500)	11/2E2	1500	300	25.54	21.23	14.20	4.13	3.45		
	7(2500)	11/2E3	2500	300	41.37	35.40	23.65	5.10	3.45		

尺寸 Dimensions mm

型号 Type		面心距 Center to Face 进口 Inlet L	出口 Outlet L1	法兰阀座总厚 Total Thickness of Flange and Nozzle b	近似高度 Approximate Height H 阀帽形式 Cap Type A	C	D
TFO TFL TFB TFOH	1(150)	115	105	20	350	380	380
	2(300)	115	105	22	350	380	380
	3(300)	115	105	22	350	380	380
	4(600)	115	105	25	350	380	380
	5(900)	140	105	36	460	480	500
	6(1500)	140	105	36	460	480	500
	7(2500)	178	140	42	490	520	540



TA526系列安全阀标准参数
TA526 Series safety valve standard parameter

F 通径、压力——温度界限 Size, Pressure——Temperature Limits

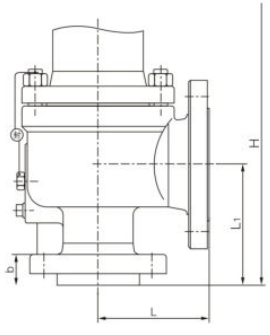
流道面积/喉径 Orifice Area/Diameter 0.710cm²/9.5mm

型号 Type		通径(英寸) Size(inch) 进口×流道代号×出口 Inlet×Orifice×Outlet	ANSI法兰磅级 Flange Class		最高整定压力(MPa) Maximum Set Pressure 温度(℃) Temperature			38℃最高背压 Back Pressure Limit 38℃(MPa)		材质 Material	
			进口 Inlet	出口 Outlet	-29℃~38℃	38℃~232℃	232℃~427℃	TFO (TFA42C)	TFB (TFWA42C)	阀体 Body	弹簧 Spring
TFO TFL TFB TFOH	1(150)	11/2F2	150	150	1.96	1.27	0.55	1.96	1.58	碳钢 C. St 不锈钢 St. St.	合金钢 Alloy.St 合金钢涂四氟 Alloy St Spread Teflon
	2(300)	11/2F2	300	150	1.96	1.96	1.96	1.96	1.58		
	3(300)	11/2F2	300	150	5.10	4.24	2.82	1.96	1.58		
	4(600)	11/2F2	600	150	10.20	8.51	5.68	1.96	1.58		
	5(900)	11/2F3	900	300	15.30	12.72	8.51	4.13	3.45		
	6(1500)	11/2F3	1500	300	25.54	21.23	14.20	4.13	3.45		
	7(2500)	11/2F3	2500	300	34.47	34.47	23.65	5.10	3.45		
	5*(900*)	11/2F2 1/2*	900	300	15.30	12.72	8.51	5.10	3.45		
	6*(1500*)	11/2F2 1/2*	1500	300	25.54	21.23	14.20	5.10	3.45		

注：*是1995年6月API Std 526第四版之前的规格
Note: * is specifications before API Standard 526 Fouth Edition. June 1995

尺寸 Dimensions mm

型号 Type		面心距 Center to Face 进口 Inlet L	出口 Outlet L1	法兰阀座总厚 Total Thickness of Flange and Nozzle b	近似高度 Approximate Height H 阀帽形式 Cap Type A	C	D
TFO TFL TFB TFOH	1(150)	121	124	21	350	380	380
	2(300)	121	124	24	350	380	380
	3(300)	152	124	32	350	380	380
	4(600)	152	124	32	350	380	380
	5(900)	165	124	42	460	480	500
	6(1500)	165	124	42	460	480	500
	7(2500)	178	140	55	490	480	500
	5*(900*)	152	124	40	470	500	520
	6*(1500*)	152	124	40	420	500	520



TA526系列安全阀标准参数
TA526 Series safety valve standard parameter

G 通径、压力——温度界限 Size, Pressure——Temperature Limits

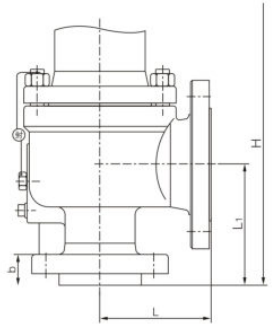
流道面积/喉径 Orifice Area/Diameter 0.710cm²/9.5mm

型号 Type		通径(英寸) Size(inch) 进口×流道代号×出口 Inlet×Orifice×Outlet	ANSI法兰磅级 Flange Class		最高整定压力(MPa) Maximum Set Pressure 温度(℃) Temperature			38℃最高背压 Back Pressure Limit 38℃(MPa)		材质 Material	
			进口 Inlet	出口 Outlet	-29℃~38℃	38℃~232℃	232℃~427℃	TFO (TFA42C)	TFB (TFWA42C)	阀体 Body	弹簧 Spring
TFO TFL TFB TFOH	1(150)	11/2G3	150	150	1.96	1.27	0.55	1.96	1.58	碳钢 C. St 不锈钢 St. St.	合金钢 Alloy.St 合金钢涂四氟 Alloy St Spread Teflon
	2(300)	11/2G3	300	150	1.96	1.96	1.96	1.96	1.58		
	3(300)	11/2G3	300	150	5.10	4.24	2.82	1.96	1.58		
	4(600)	11/2G3	600	150	10.20	8.51	5.68	1.96	1.58		
	5(900)	11/2G3	900	300	15.30	12.72	8.51	5.10	3.24		
	6(1500)	2G3	1500	300	25.54	21.23	14.20	5.10	3.24		
	7(2500)	2G3	2500	300	25.54	25.54	23.65	5.10	3.24		
	1*(150*)	11/2G2 1/2*	150	150	1.96	1.27	0.55	1.96	1.58		
	2*(300*)	11/2G2 1/2*	300	150	1.96	1.96	1.96	1.96	1.58		
	3*(300*)	11/2G2 1/2*	300	150	5.10	4.24	2.82	1.96	1.58		
	4*(600*)	11/2G2 1/2*	600	150	10.20	8.51	5.68	1.96	1.58		
	5*(900*)	11/2G2 1/2*	900	300	15.30	12.72	8.51	5.10	3.24		

注：*是1995年6月API Std 526第四版之前的规格
Note: * is specifications before API Standard 526 Fouth Edition. June 1995

尺寸 Dimensions mm

型号 Type		面心距 Center to Face 进口 Inlet L	面心距 Center to Face 出口 Outlet L1	法兰阀座总厚 Total Thickness of Flange and Nozzle b	近似高度 Approximate Height H 阀帽形式 Cap Type A	C	D
TFO TFL TFB TFOH	1(150)	121	124	36	460	480	500
	2(300)	121	124	40	460	480	500
	3(300)	152	124	32	460	480	500
	4(600)	152	124	32	460	480	500
	5(900)	165	124	42	460	480	500
	6(1500)	171	156	58	710	740	755
	7(2500)	171	156	59	710	740	755
	1*(150*)	121	124	23	470	490	520
	2*(300*)	121	124	27	470	490	520
	3*(300*)	152	124	29	470	490	520
	4*(600*)	152	124	29	480	500	530
	5*(900*)	152	124	40	480	500	530



美标安全阀系列
API safety valve series
宇明阀门集团 YUMING VALVE GROUP

TA526系列安全阀标准参数
TA526 Series safety valve standard parameter

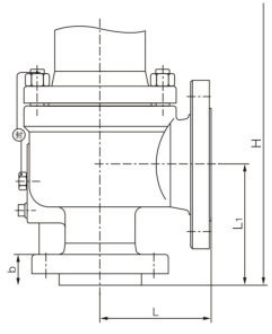
H 通径、压力——温度界限 Size, Pressure——Temperature Limits

流道面积/喉径 Orifice Area/Diameter 0.710cm²/9.5mm

型号 Type		通径(英寸) Size(inch) 进口×流道代号×出口 Inlet×Orifice×Outlet	ANSI法兰磅级 Flange Class		最高整定压力(MPa) Maximum Set Pressure 温度(℃) Temperature			38℃最高背压 Back Pressure Limit 38℃(MPa)		材质 Material	
			进口 Inlet	出口 Outlet	-29℃~38℃	38℃~232℃	232℃~427℃	TFO (TFA42C)	TFB (TFWA42C)	阀体 Body	弹簧 Spring
TFO TFL TFB TFOH	1(150)	11/2H3	150	150	1.96	1.27	0.55	1.96	1.58	碳钢 C. St 不锈钢 St. St.	合金钢 Alloy.St 合金钢涂四氟 Alloy St Spread Teflon
	2(300)	11/2H3	300	150	1.96	1.96	1.96	1.96	1.58		
	3(300)	2H3	300	150	5.10	4.24	2.82	1.96	1.58		
	4(600)	2H3	600	150	10.20	8.51	5.68	1.96	1.58		
	5(900)	2H3	900	300	15.30	12.72	8.51	1.96	1.58		
	6(1500)	2H3	1500	300	18.96	18.96	14.20	5.10	2.86		

尺寸 Dimensions mm

型号 Type		面心距 Center to Face 进口 Inlet L	面心距 Center to Face 出口 Outlet L1	法兰阀座总厚 Total Thickness of Flange and Nozzle b	近似高度 Approximate Height H 阀帽形式 Cap Type A	C	D
TFO TFL TFB TFOH	1(150)	124	130	42	420	430	450
	2(300)	124	130	44	420	430	450
	3(300)	124	130	28	510	520	580
	4(600)	162	154	46	510	520	580
	5(900)	162	154	58	540	560	580
	6(1500)	162	154	58	540	560	580



TA526系列安全阀标准参数
TA526 Series safety valve standard parameter

J 通径、压力——温度界限 Size, Pressure——Temperature Limits

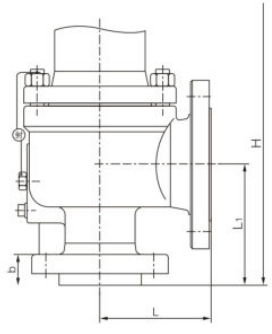
流道面积/喉径 Orifice Area/Diameter 0.710cm²/9.5mm

型号 Type		通径(英寸) Size(inch) 进口×流道代号×出口 Inlet×Orifice×Outlet	ANSI法兰磅级 Flange Class		最高整定压力(MPa) Maximum Set Pressure 温度(℃) Temperature			38℃最高背压 Back Pressure Limit 38℃(MPa)		材质 Material	
			进口 Inlet	出口 Outlet	-29℃~38℃	38℃~232℃	232℃~427℃	TFO (TFA42C)	TFB (TFWA42C)	阀体 Body	弹簧 Spring
TFO TFL TFB TFOH	1(150)	2J3	150	150	1.96	1.27	0.55	1.96	1.58	碳钢 C. St 不锈钢 St. St.	合金钢 Alloy.St 合金钢涂四氟 Alloy St Spread Teflon
	2(300)	2J3	300	150	1.96	1.96	1.96	1.96	1.58		
	3(300)	3J4	300	150	5.10	4.24	2.82	1.96	1.58		
	4(600)	3J4	600	150	10.20	8.51	5.68	1.96	1.58		
	5(900)	3J4	900	150	15.30	12.72	8.51	1.96	1.58		
	6(1500)	3J4	1500	300	18.61	18.61	14.20	4.13	1.58		
	3*(300*)	2 1/2J4*	300	150	5.10	4.24	2.82	1.96	1.58		
	4*(600*)	2 1/2J4*	600	150	10.20	8.51	5.68	1.96	1.58		

注：*是1995年6月API Std 526第四版之前的规格
Note: * is specifications before API Standard 526 Fouth Edition. June 1995

尺寸 Dimensions mm

型号 Type		面心距 Center to Face 进口 Inlet	面心距 Center to Face 出口 Outlet	法兰阀座总厚 Total Thickness of Flange and Nozzle	近似高度 Approximate Height H 阀帽形式 Cap Type		
		L	L_1	b	A	C	D
TFO TFL TFB TFOH	1(150)	124	137	24	460	480	500
	2(300)	124	137	28	460	480	500
	3(300)	181	184	46	510	520	580
	4(600)	181	184	49	650	680	695
	5(900)	181	184	55	650	680	695
	6(1500)	181	184	64	650	680	695
	3*(300*)	143	136	34	510	520	580
	4*(600*)	171	136	39	710	740	755



美标安全阀系列
API safety valve series
宇明阀门集团 YUMING VALVE GROUP

TA526系列安全阀标准参数
TA526 Series safety valve standard parameter

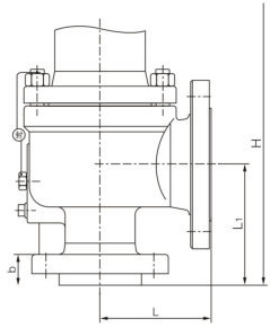
K 通径、压力——温度界限 Size, Pressure——Temperature Limits

流道面积/喉径 Orifice Area/Diameter 0.710cm²/9.5mm

型号 Type		通径(英寸) Size(inch) 进口×流道代号×出口 Inlet×Orifice×Outlet	ANSI法兰磅级 Flange Class		最高整定压力(MPa) Maximum Set Pressure 温度(℃) Temperature			38℃最高背压 Back Pressure Limit 38℃(MPa)		材质 Material	
			进口 Inlet	出口 Outlet	-29℃~38℃	38℃~232℃	232℃~427℃	TFO (TFA42C)	TFB (TFWA42C)	阀体 Body	弹簧 Spring
TFO TFL TFB TFOH	1(150)	3K4	150	150	1.96	1.27	0.55	1.96	1.03	碳钢 C. St 不锈钢 St. St.	合金钢 Alloy.St 合金钢涂四氟 Alloy St Spread Teflon
	2(300)	3K4	300	150	1.96	1.96	1.96	1.96	1.03		
	3(300)	3K4	300	150	5.10	4.24	2.82	1.96	1.03		
	4(600)	3K4	600	150	10.20	8.51	5.68	1.96	1.38		
	5(900)	3K6	900	150	15.30	12.72	8.51	1.96	1.38		
	6(1500)	3K6	1500	300	15.30	15.30	14.20	4.13	1.38		

尺寸 Dimensions mm

型号 Type		面心距 Center to Face 进口 Inlet	面心距 Center to Face 出口 Outlet	法兰阀座总厚 Total Thickness of Flange and Nozzle	近似高度 Approximate Height H 阀帽形式 Cap Type		
		L	L_1	b	A	C	D
TFO TFL TFB TFOH	1(150)	162	156	29	510	520	580
	2(300)	162	156	34	510	520	580
	3(300)	162	156	34	510	520	580
	4(600)	181	184	49	650	680	695
	5(900)	216	198	55	685	710	725
	6(1500)	216	197	64	685	710	725



TA526系列安全阀标准参数
TA526 Series safety valve standard parameter

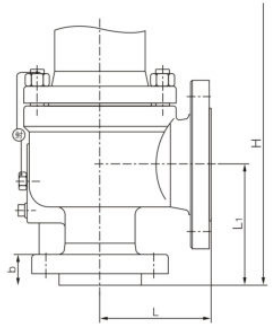
L 通径、压力——温度界限 Size, Pressure——Temperature Limits

流道面积/喉径 Orifice Area/Diameter 0.710cm²/9.5mm

型号 Type		通径(英寸) Size(inch) 进口×流道代号×出口 Inlet×Orifice×Outlet	ANSI法兰磅级 Flange Class		最高整定压力(MPa) Maximum Set Pressure 温度(℃) Temperature			38℃最高背压 Back Pressure Limit 38℃(MPa)		材质 Material	
			进口 Inlet	出口 Outlet	-29℃~38℃	38℃~232℃	232℃~427℃	TFO (TFA42C)	TFB (TFWA42C)	阀体 Body	弹簧 Spring
TFO TFL TFB TFOH	1(150)	3L4	150	150	1.96	1.27	0.55	1.96	0.69	碳钢 C. St 不锈钢 St. St.	合金钢 Alloy.St 合金钢涂四氟 Alloy St Spread Teflon
	2(300)	3L4	300	150	1.96	1.96	1.96	1.96	0.69		
	3(300)	4L6	300	150	5.10	4.24	2.82	1.96	1.17		
	4(600)	4L6	600	150	6.89	6.89	5.68	1.96	1.17		
	5(900)	4L6	900	150	10.34	10.34	8.51	1.96	1.17		
	6(1500)	4L6	1500	150		10.34	10.34	1.96	1.17		

尺寸 Dimensions mm

型号 Type		面心距 Center to Face 进口 Inlet L	面心距 Center to Face 出口 Outlet L1	法兰阀座总厚 Total Thickness of Flange and Nozzle b	近似高度 Approximate Height H 阀帽形式 Cap Type A	C	D
TFO TFL TFB TFOH	1(150)	165	156	29	510	520	580
	2(300)	165	156	34	510	520	580
	3(300)	181	179	42	650	680	695
	4(600)	203	179	48	650	680	695
	5(900)	222	197	55	670	700	715
	6(1500)	222	197	64	670	700	715



美标安全阀系列
API safety valve series
宇明阀门集团 YUMING VALVE GROUP

TA526系列安全阀标准参数
TA526 Series safety valve standard parameter

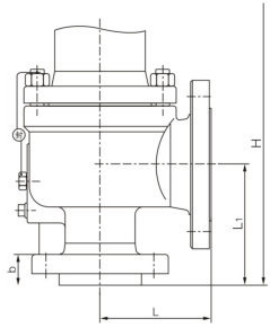
M 通径、压力——温度界限 Size, Pressure——Temperature Limits

流道面积/喉径 Orifice Area/Diameter 0.710cm²/9.5mm

型号 Type		通径(英寸) Size(inch) 进口×流道代号×出口 Inlet×Orifice×Outlet	ANSI法兰磅级 Flange Class		最高整定压力(MPa) Maximum Set Pressure 温度(℃) Temperature			38℃最高背压 Back Pressure Limit 38℃(MPa)		材质 Material	
			进口 Inlet	出口 Outlet	-29℃~38℃	38℃~232℃	232℃~427℃	TFO (TFA42C)	TFB (TFWA42C)	阀体 Body	弹簧 Spring
TFO TFL TFB TFOH	1(150)	4M6	150	150	1.96	1.27	0.55	1.96	0.55	碳钢 C. St 不锈钢 St. St.	合金钢 Alloy.St 合金钢涂四氟 Alloy St Spread Teflon
	2(300)	4M6	300	150	1.96	1.96	1.96	1.96	0.55		
	3(300)	4M6	300	150	5.10	4.24	2.82	1.96	1.10		
	4(600)	4M6	600	150	7.58	7.58	5.68	1.96	1.10		
	5(900)	4M6	900	150		7.58	7.58	1.96	1.10		

尺寸 Dimensions mm

型号 Type		面心距 Center to Face 进口 Inlet L	面心距 Center to Face 出口 Outlet L1	法兰阀座总厚 Total Thickness of Flange and Nozzle b	近似高度 Approximate Height H 阀帽形式 Cap Type A	C	D
TFO TFL TFB TFOH	1(150)	184	178	34	755	790	805
	2(300)	184	178	42	755	790	805
	3(300)	184	178	42	755	790	805
	4(600)	203	178	48	755	790	805
	5(900)	222	197	55	755	790	805



TA526系列安全阀标准参数
TA526 Series safety valve standard parameter

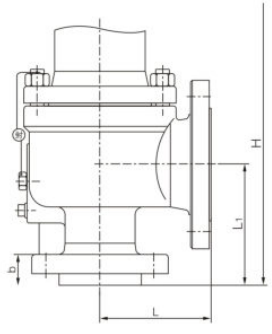
N 通径、压力——温度界限 Size, Pressure——Temperature Limits

流道面积/喉径 Orifice Area/Diameter 0.710cm²/9.5mm

型号 Type		通径(英寸) Size(inch) 进口×流道代号×出口 Inlet×Orifice×Outlet	ANSI法兰磅级 Flange Class		最高整定压力(MPa) Maximum Set Pressure 温度(℃) Temperature			38℃最高背压 Back Pressure Limit 38℃(MPa)		材质 Material	
			进口 Inlet	出口 Outlet	-29℃~38℃	38℃~232℃	232℃~427℃	TFO (TFA42C)	TFB (TFWA42C)	阀体 Body	弹簧 Spring
TFO TFL TFB TFOH	1(150)	4N6	150	150	1.96	1.27	0.55	1.96	0.55	碳钢 C. St 不锈钢 St. St.	合金钢 Alloy.St 合金钢涂四氟 Alloy St Spread Teflon
	2(300)	4N6	300	150	1.96	1.96	1.96	1.96	0.55		
	3(300)	4N6	300	150	5.10	4.24	2.82	1.96	1.10		
	4(600)	4N6	600	150	6.89	6.89	5.68	1.96	1.10		
	5(900)	4N6	900	150		6.89	6.89	1.96	1.10		

尺寸 Dimensions mm

型号 Type		面心距 Center to Face 进口 Inlet L	面心距 Center to Face 出口 Outlet L1	法兰阀座总厚 Total Thickness of Flange and Nozzle b	近似高度 Approximate Height H 阀帽形式 Cap Type A	C	D
TFO TFL TFB TFOH	1(150)	210	197	34	755	810	825
	2(300)	210	197	42	755	810	825
	3(300)	210	197	42	755	810	825
	4(600)	222	197	49	755	810	825
	5(900)	222	197	55	755	810	825



美标安全阀系列
API safety valve series
宇明阀门集团 YUMING VALVE GROUP

TA526系列安全阀标准参数
TA526 Series safety valve standard parameter

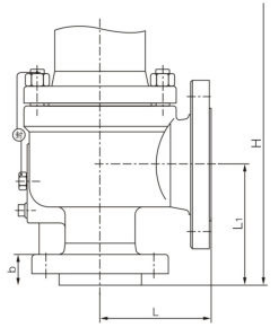
P 通径、压力——温度界限 Size, Pressure——Temperature Limits

流道面积/喉径 Orifice Area/Diameter 0.710cm²/9.5mm

型号 Type		通径(英寸) Size(inch) 进口×流道代号×出口 Inlet×Orifice×Outlet	ANSI法兰磅级 Flange Class		最高整定压力(MPa) Maximum Set Pressure 温度(℃) Temperature			38℃最高背压 Back Pressure Limit 38℃(MPa)		材质 Material	
			进口 Inlet	出口 Outlet	-29℃~38℃	38℃~232℃	232℃~427℃	TFO (TFA42C)	TFB (TFWA42C)	阀体 Body	弹簧 Spring
TFO TFL TFB TFOH	1(150)	4P6	150	150	1.96	1.27	0.55	1.96	0.55	碳钢 C. St 不锈钢 St. St.	合金钢 Alloy.St 合金钢涂四氟 Alloy St Spread Teflon
	2(300)	4P6	300	150	1.96	1.96	1.96	1.96	0.55		
	3(300)	4P6	300	150	5.10	4.24	2.82	1.96	1.03		
	4(600)	4P6	600	150	6.89	6.89	5.68	1.96	1.03		
	5(900)	4P6	900	150		6.89	6.89	1.96	1.03		

尺寸 Dimensions mm

型号 Type		面心距 Center to Face 进口 Inlet L	面心距 Center to Face 出口 Outlet L1	法兰阀座总厚 Total Thickness of Flange and Nozzle b	近似高度 Approximate Height H 阀帽形式 Cap Type A	C	D
TFO TFL TFB TFOH	1(150)	229	181	34	800	835	850
	2(300)	229	181	42	800	835	850
	3(300)	254	225	50	825	915	935
	4(600)	254	225	59	825	915	935
	5(900)	254	225	66	825	915	935



TA526系列安全阀标准参数
TA526 Series safety valve standard parameter

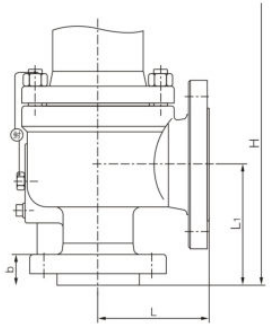
Q 通径、压力——温度界限 Size, Pressure——Temperature Limits

流道面积/喉径 Orifice Area/Diameter 0.710cm²/9.5mm

型号 Type		通径(英寸) Size(inch) 进口×流道代号×出口 Inlet×Orifice×Outlet	ANSI法兰磅级 Flange Class		最高整定压力(MPa) Maximum Set Pressure 温度(℃) Temperature			38℃最高背压 Back Pressure Limit 38℃(MPa)		材质 Material	
			进口 Inlet	出口 Outlet	-29℃~38℃	38℃~232℃	232℃~427℃	TFO (TFA42C)	TFB (TFWA42C)	阀体 Body	弹簧 Spring
TFO TFL TFB TFOH	1(150)	6Q8	150	150	1.13	1.13	0.55	0.79	0.48	碳钢 C. St 不锈钢 St. St.	合金钢 Alloy.St 合金钢涂四氟 Alloy St Spread Teflon
	2(300)	6Q8	300	150	1.13	1.13	1.13	0.79	0.48		
	3(300)	6Q8	300	150	2.06	2.06	2.06	0.79	0.79		
	4(600)	6Q8	600	150	4.13	4.13	4.13	0.79	0.79		

尺寸 Dimensions mm

型号 Type		面心距 Center to Face 进口 Inlet L	面心距 Center to Face 出口 Outlet L1	法兰阀座总厚 Total Thickness of Flange and Nozzle b	近似高度 Approximate Height H 阀帽形式 Cap Type A	C	D
TFO TFL TFB TFOH	1(150)	241	240	45	980	1020	1035
	2(300)	241	240	57	980	1020	1035
	3(300)	241	240	57	980	1020	1035
	4(600)	241	240	68	980	1020	1035



美标安全阀系列
API safety valve series
宇明阀门集团 YUMING VALVE GROUP

TA526系列安全阀标准参数
TA526 Series safety valve standard parameter

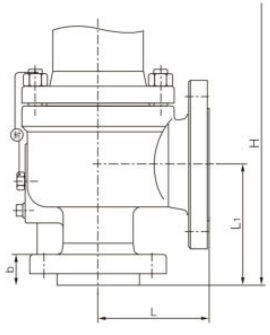
R 通径、压力——温度界限 Size, Pressure——Temperature Limits

流道面积/喉径 Orifice Area/Diameter 0.710cm²/9.5mm

型号 Type		通径(英寸) Size(inch) 进口×流道代号×出口 Inlet×Orifice×Outlet	ANSI法兰磅级 Flange Class		最高整定压力(MPa) Maximum Set Pressure 温度(℃) Temperature			38℃最高背压 Back Pressure Limit 38℃(MPa)		材质 Material	
			进口 Inlet	出口 Outlet	-29℃~38℃	38℃~232℃	232℃~427℃	TFO (TFA42C)	TFB (TFWA42C)	阀体 Body	弹簧 Spring
TFO TFL TFB TFOH	1(150)	6R8	150	150	0.68	0.68	0.55	0.41	0.41	碳钢 C. St 不锈钢 St. St.	合金钢 Alloy.St 合金钢涂四氟 Alloy St Spread Teflon
	2(300)	6R8	300	150	0.68	0.68	0.68	0.41	0.41		
	3(300)	6R10	300	150	1.58	1.58	1.58	0.68	0.68		
	4(600)	6R10	600	150	2.06	2.06	2.06	0.68	0.68		

尺寸 Dimensions mm

型号 Type		面心距 Center to Face 进口 Inlet L	面心距 Center to Face 出口 Outlet L1	法兰阀座总厚 Total Thickness of Flange and Nozzle b	近似高度 Approximate Height H 阀帽形式 Cap Type A	C	D
TFO TFL TFB TFOH	1(150)	241	240	45	980	1020	1035
	2(300)	241	240	57	980	1020	1035
	3(300)	267	240	57	1020	1060	1075
	4(600)	267	240	68	1020	1060	1075



TA526系列安全阀标准参数
TA526 Series safety valve standard parameter

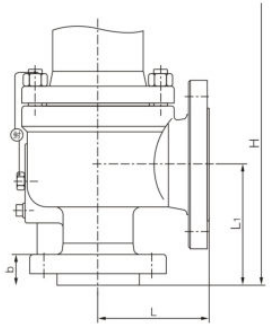
T 通径、压力——温度界限 Size, Pressure——Temperature Limits

流道面积/喉径 Orifice Area/Diameter 0.710cm²/9.5mm

型号 Type		通径(英寸) Size(inch) 进口×流道代号×出口 Inlet×Orifice×Outlet	ANSI法兰磅级 Flange Class 进口 Inlet	出口 Outlet	最高整定压力(MPa) Maximum Set Pressure 温度(℃) Temperature -29℃~38℃	38℃	232℃~427℃	38℃最高背压 Back Pressure Limit 38℃(MPa) TFO (TFA42C)	TFB (TFWA42C)	材质 Material 阀体 Body	弹簧 Spring
TFO TFL TFB TFOH	1(150)	8T10	150	150	0.44	0.44	0.44	0.20	0.20	碳钢 C. St 不锈钢 St. St.	合金钢 Alloy.St 合金钢涂四氟 Alloy St Spread Teflon
	2(300)	8T10	300	150	0.44	0.44	0.44	0.20	0.20		
	3(300)	8T10	300	150	0.82	0.82	0.82	0.41	0.41		
	4(600)	8T10	600	150	2.06	2.06	2.06	0.68	0.68		

尺寸 Dimensions mm

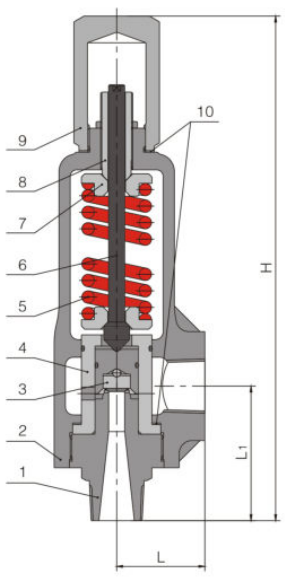
型号 Type		面心距 Center to Face 进口 Inlet L	出口 Outlet L1	法兰阀座总厚 Total Thickness of Flange and Nozzie b	近似高度 Approximate Height H 阀帽形式 Cap Type A	C	D
TFO TFL TFB TFOH	1(150)	279	276	37	1040	1080	1095
	2(300)	279	276	50	1040	1080	1095
	3(300)	279	276	50	1040	1080	1095
	4(600)	279	276	67	1040	1080	1095



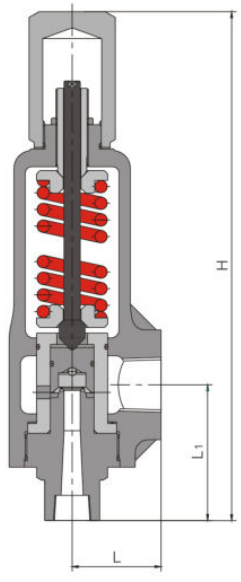
美标安全阀系列
API safety valve series
宇明阀门集团 YUMING VALVE GROUP

A12/22/42系列螺纹、松套法兰式泄压阀
A12/22/42 Series screw, loose knot type flanged pressure relief valve

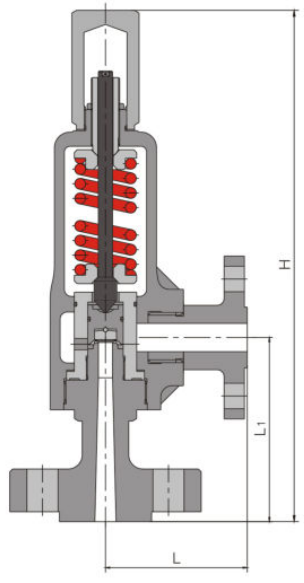
A12/22/42系列螺纹、松套法兰式泄压阀
A12/22/42 Series screw, loose knot type flanged pressure relief valve



A22Y-MX



A12Y-FX



A42Y-XXX

A12/22系列螺纹泄压阀
A12/22 Series screw pressure relief valve

材料 Materials

序号 Ref.No	零件名称 Part Name	阀体材料 Valve Materials			
		C	P	R	R3
1	阀座 Nozzle	304	304	316	316L
2	阀体 Body	WCB	CF8	CF8M	CF3M
3	阀瓣 Disc	304	304	316	316L
4	导向套 Guide	304	304	316	316L
5	弹簧 Spring	304	304	316	316L
6	阀杆 Stem	420	304	316	316L
7	弹簧座 Spring Washer	420	420	420	420
8	调整螺钉 Adjusting Bolt	420	420	420	420
9	阀帽 Cap	WCB	CF8	CF8M	CF3M
10	垫片 Gaskets	石棉板 Asbestors	PTFE	PTFE	PTFE

螺纹连接 Screwed Connections

流道面积 Orifice Area (cm²)	型号 Type	口径(英寸) 进口×出口 Inlet×Outlet	连接 Connections(NPT)		最高整定压力(MPa) Maximum Set Pressure		尺寸 Dimensions(mm)			近似重量 Approx. Weight (kg)
			进口 Inlet	出口 Outlet	-29℃~232℃	232℃~427℃	L	L_1	H	
0.28(B)	A22Y-MX	1/4B1/4	外螺纹	F(内螺纹)	8.51	5.68	55	85	315	4
	A12Y-FX		内螺纹				55	85	315	
	A22Y-MX	1/2B1/2	外螺纹	F(内螺纹)	8.51	5.68	55	85	315	4
	A12Y-FX		内螺纹				55	85	315	
0.50(C)	A22Y-MX	1/2C1/2	外螺纹	F(内螺纹)	8.51	5.68	55	85	315	4
	A12Y-FX		内螺纹				55	85	315	
	A22Y-MX	3/4C3/4	外螺纹	F(内螺纹)	8.51	5.68	55	85	315	4
	A12Y-FX		内螺纹				55	85	315	
	A22Y-MX	1/2C1	外螺纹	F(内螺纹)	8.51	5.68	55	85	315	4
	A12Y-FX		内螺纹				55	85	315	
	A22Y-MX	3/4C1	外螺纹	F(内螺纹)	8.51	5.68	55	85	315	4
	A12Y-FX		内螺纹				55	85	315	
	A22Y-MX	1C1	外螺纹	F(内螺纹)	8.51	5.68	55	85	315	4
	A12Y-FX		内螺纹				55	85	315	
0.71(D)	A22Y-MX	3/4D3/4	外螺纹	F(内螺纹)	8.51	5.68	55	85	315	4
	A12Y-FX		内螺纹				55	85	315	
	A22Y-MX	3/4D1	外螺纹	F(内螺纹)	8.51	5.68	55	85	315	4
	A12Y-FX		内螺纹				55	85	315	
	A22Y-MX	D1	外螺纹	F(内螺纹)	8.51	5.68	55	85	315	4
	A12Y-FX		内螺纹				55	85	315	

注：L和L_1可按用户要求定制。
Remark: L and L_1 may be made according to user's requests.

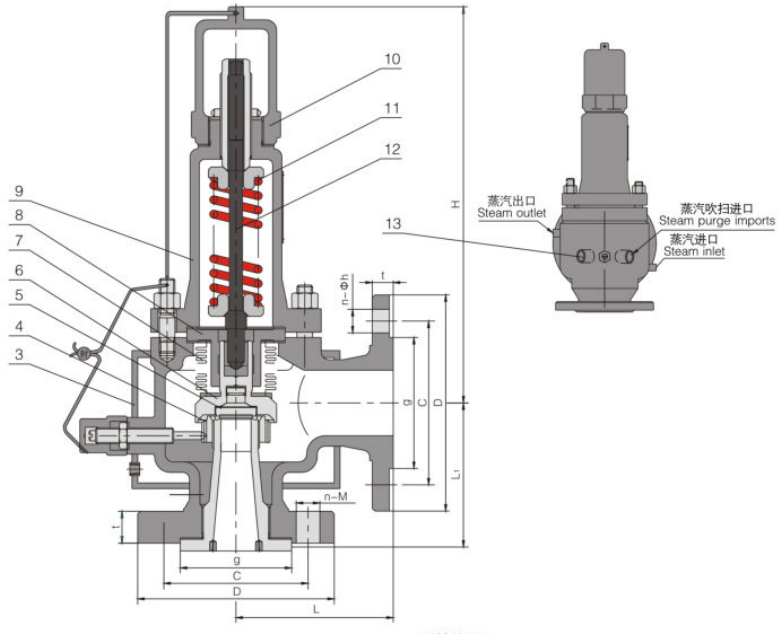
A42Y系列松套法兰式泄压阀
A42Y Series loose knot type flanged pressure relief valve

法兰连接 Flanged Connections

流道面积 Orifice Area (cm²)	型号 Type	口径(英寸) 进口×出口 Inlet×Outlet	连接 Connections(NPT)		最高整定压力(MPa) Maximum Set Pressure		尺寸 Dimensions(mm)			近似重量 Approx. Weight (kg)
			进口 Inlet	出口 Outlet	-29℃~232℃	232℃~427℃	L	L_1	H	
0.28(B)	TFXY-1X	1/4B1/4	150Lb	150Lb	1.27	0.55	100	118	300	6
	TFXY-3X		300Lb		4.24	2.82				
	TFXY-4X		600Lb		8.51	5.68				
	TFXY-1X	1/2B1/2	150Lb	150Lb	1.27	0.55	100	118	300	6
	TFXY-3X		300Lb		4.24	2.82				
	TFXY-4X		600Lb		8.51	5.68				
0.50(C)	TFXY-1X	1/2C1/2	150Lb	150Lb	1.27	0.55	100	118	300	6
	TFXY-3X		300Lb		4.24	2.82				
	TFXY-4X		600Lb		8.51	5.68				
	TFXY-1X	3/4C3/4	150Lb	150Lb	1.27	0.55	100	118	300	6
	TFXY-3X		300Lb		4.24	2.82				
	TFXY-4X		600Lb		8.51	5.68				
	TFXY-1X	1/2C1	150Lb	150Lb	1.27	0.55	100	118	300	6
	TFXY-3X		300Lb		4.24	2.82				
	TFXY-4X		600Lb		8.51	5.68				
	TFXY-1X	3/4C1	150Lb	150Lb	1.27	0.55	100	118	300	6
	TFXY-3X		300Lb		4.24	2.82				
	TFXY-4X		600Lb		8.51	5.68				
	TFXY-1X	1C1	150Lb	150Lb	1.27	0.55	100	118	300	6
	TFXY-3X		300Lb		4.24	2.82				
	TFXY-4X		600Lb		8.51	5.68				
0.71(D)	TFXY-1X	3/4D3/4	150Lb	150Lb	1.27	0.55	100	118	300	6
	TFXY-3X		300Lb		4.24	2.82				
	TFXY-4X		600Lb		8.51	5.68				
	TFXY-1X	3/4D1	150Lb	150Lb	1.27	0.55	100	118	300	6
	TFXY-3X		300Lb		4.24	2.82				
	TFXY-4X		600Lb		8.51	5.68				
	TFXY-1X	D1	150Lb	150Lb	1.27	0.55	100	118	300	6
	TFXY-3X		300Lb		4.24	2.82				
	TFXY-4X		600Lb		8.51	5.68				

注：L和L_1可按用户要求定制。
Remark: L and L_1 may be made according to user's requests.

TFNY系列保温夹套安全阀
TFNY Series safety valve with jacket



TFNY型结构图 Structure

用途及特点

1、用作聚脂、乙烯、沥青及尿素等装置中介质需要保温的压力安全泄压阀。
2、对进、出口法兰在内的阀体均进行保温，因而保温效果好特殊需要时可以增加蒸汽冲洗功能。
3、平衡波纹管式结构，变动背压力不影响安全阀的整定压力，且波纹管对弹簧等阀盖内的零件起到保护介质侵蚀作用。
4、内件(阀瓣、阀座)标准材料均为奥氏体不锈钢，密封面堆焊Stellite硬质合金。
5、特殊需要时内件可提供尿素级316L.Mod双相不锈钢0Cr25Ni6Mo3CuN、00Cr25Ni6Mo2N及超级双相不锈钢F51(NUS S31803)、F53(UNS S32750)、F55(UNS S32760)

Application & Features

1. It's serviced in the circumslancc where the heat preservation of fluid is needed, such as equipment of polyester, ethy-lene, pitch, urea, etc.
2. Body including inlet and outlet flanges is heat preseved, vo the effect is very well the function of vapor flushing be added, if needed.
3. Balaned bellows construction protects set pressure from being affected by variable back pressure, and the parts in bonnet, such as spring, form being corroded.
4. Trim(nozzle and disc) is normally made with austenitic stainless steel, and faced with stellite alloy.
5. To meet special service, the material of trim can be 316L, 0Cr25Ni6Mo3CuN, 00Cr25Ni6Mo2N, F51(NUS S31803), F53(UNS S32750), F55(UNS S32760)

TFNY系列保温夹套安全阀
TFNY Series safety valve with jacket

型号编制方法 Method of compiling the types

进口法兰磅级 Flange Class	阀体材料 Material of Body	阀帽形式 Cap Types
1: 150Lb 2: 300Lb 3: 300Lb 4: 600Lb 5: 900Lb 6: 1500Lb 7: 2500Lb	C: WCB P: CF8 R: CF8M R3: CF3M N: 特殊材料 SPECIL Material	K：带螺塞的螺纹式 Screwed with plug E：带螺塞的封闭杠杆式 Close Lifting Leved with Plug

材料 Materials

序号 Ref.No	零件名称 Part Name	阀体材料 Valve Materials		
		P	R	R3
1	阀体 Body	CF8	CF8M	CF3M
2	阀座 Nozzle	316	316	316L
3	夹套 Jacket	304	316	316
4	调节圈 Adjusting ring	CF8	CF8M	CF3M
5	阀瓣 Disc	316	316	316L
6	反冲盘 Disc holder	304	316	316L
7	波纹管 Bellows	316	316L	316L
8	导向套 Guide	CF8	CF8M	CF3M
9	阀盖 Bonnet	CF8	CF8M	CF3M
10	阀帽 Cap	CF8	CF8M	CF8M
11	弹簧 Spring	50CrVA+PTFE	50CrVA+PTFE	50CrVA+PTFE
12	阀杆 Stem	304	316	316L
13	吹气管 Huff pipe	304	316	316L

TFNY系列保温夹套安全阀(相当于TFBWA42型)
TFNY Series safety valve with jacket

型号 Type：TFNJ-03a
法兰磅级 ANSI Flange Class：300Lb/150Lb(进口/出口 Inlet/Outlet)

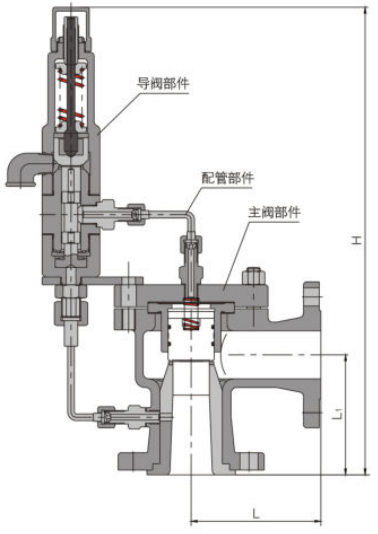
进口/流道代号/出口 (流道面积cm²) Inlet/Oriffice /Outlet (Orifice Area)	最高整定压力(MPa) Max. Set Pressure 温度(℃) Temperature		法兰尺寸 Dimensions(mm)						面心距(mm) Center to Face	
	100℃ ~232℃	232℃ ~427℃		ΦD	ΦC	Φg	t	n-M/ n-Φh	L	L_1
1D2 (0.710)	4.24	2.82	进口 Inlet	125	89	51	18	4-Φ19	115	105
			出口 Outlet	150	120.5	92	19	4-Φ19		
1E2 (1.264)	4.24	2.82	进口 Inlet	125	89	51	18	4-Φ19	115	105
			出口 Outlet	150	120.5	92	19	4-Φ19		
½F2 (1.981)	4.24	2.82	进口 Inlet	155	114.5	73	21	4-Φ22	121	124
			出口 Outlet	150	120.5	92	19	4-Φ19		
1½G3 (3.245)	4.24	2.82	进口 Inlet	155	114.5	73	21	4-Φ22	121	124
			出口 Outlet	190	152.5	127	24	4-Φ19		
2H3 (5.064)	4.24	2.82	进口 Inlet	165	127	92	23	8-Φ19	124	130
			出口 Outlet	190	152.5	127	24	4-Φ19		
3J4 (8.303)	4.24	2.82	进口 Inlet	210	168	127	29	8-Φ22	181	184
			出口 Outlet	230	190.5	157	24	8-Φ19		
3K4 (11.858)	4.24	2.82	进口 Inlet	210	168	127	29	8-Φ22	162	156
			出口 Outlet	230	190.5	157	24	8-Φ19		
4L6 (18.406)	4.24	2.82	进口 Inlet	255	200	157	32	8-Φ22	181	179
			出口 Outlet	280	241.5	216	26	8-Φ22		
4M6 (23.226)	4.24	2.82	进口 Inlet	255	200	157	32	8-Φ22	184	178
			出口 Outlet	280	241.5	216	26	8-Φ22		
4N6 (28.000)	4.24	2.82	进口 Inlet	255	200	157	32	8-Φ22	210	197
			出口 Outlet	280	241.5	216	26	8-Φ22		
4P6 (41.161)	3.62	2.82	进口 Inlet	255	200	157	32	8-Φ22	229	181
			出口 Outlet	280	241.5	216	26	8-Φ22		
6Q8 (71.290)	2.06	2.06	进口 Inlet	320	270	216	37	12-Φ22	241	240
			出口 Outlet	345	298.5	270	29	8-Φ22		
6R10 (103.226)	1.58	1.58	进口 Inlet	320	270	216	37	12-Φ22	267	240
			出口 Outlet	405	362	324	31	12-Φ26		
8T10 (167.742)	0.82	0.82	进口 Inlet	380	330	270	37	12-Φ22	279	276
			出口 Outlet	405	362	324	31	12-Φ26		

A526-TFXD先导式安全泄压阀
A526-TFXD Pilot-operated pressure relief valve

TFXD-1、TFXD-2
TFXD-4、TFXD-5
TFXD-6、TFXD-7
型先导式安全泄压阀
Pilot-operated pressure relief valve

主要性能规范 Main property and specification

公称压力 Normal pressure	PN(Lb)	150	300	600	900	1500	2500
壳体强度 Body strength	Ps(MPa)	3.0	7.5	15	22.5	37.5	63
最高整定压力 Max set pressure	Pk(MPa)	2	5.1	10.2	15.3	25.5	42.5
密封压力 Seal pressure	Pm	90% Pk					
回座压力 Reseating pressure	Ph	≥90% Pk					
排放压力 Relieving pressure	Pp	≤1.03 Pk					
开启高度 Lift	H(mm)	≥1/4 do					
适用温度 Appropriate temperature	≤200℃						
适用介质 Appropriate medium	气、天然气等 Gas, Natural gas						



喉部直径代号 Code of throat diameter

代号 Code	直径 Diameter(mm)	代号 Code	直径 Diameter(mm)
D	10	L	50
E	13	M	55
F	16	N	60
G	20.5	P	72
H	26	Q	96
J	33	R	115
K	40	T	146

尺寸规格 Dimension & Specification

进口×出口 Inlet×Outlet	150Lb结构尺寸		300Lb结构尺寸		600Lb结构尺寸		900Lb结构尺寸		1500Lb结构尺寸		2500Lb结构尺寸	
	L	L_1	L	L_1	L	L_1	L	L_1	L	L_1	L	L_1
1×D×2	114	105	114	111	114	111	121	125	121	125	121	125
1½×D×2	121	124	121	124	121	124	140	149	140	149	140	149
1½×F×2	121	124	121	124	121	124	140	149	140	149	140	149
1½×G×3	124	130	124	130	124	130	171	162	171	162	171	162
1½×H×3	124	130	124	130	124	130	171	162	171	162	171	162
2×H×3	124	136	124	136	124	136	171	167	171	167	171	178
2×J×3	124	136	124	136	124	136	171	167	171	167	171	178
3×J×4	162	156	162	156	162	162	181	191	181	191		
3×K×4	162	156	162	156	162	162	181	191	181	191		
3×L×4	162	156	162	156	162	162	181	191	181	191		
4×L×6	210	197	210	197	210	197	233	249	233	249		
4×M×6	210	197	210	197	210	197	233	249	233	249		
4×N×6	210	197	210	197	210	197	233	249	233	249		
4×P×6	210	197	210	197	210	197	233	249	264	249		
6×Q×8	241	240	241	240	241	246						
6×R×8	241	240	241	240	241	246						
8×T×10	279	276	279	276	279	297						

TFVA系列大口径安全阀
TFVA Big calibers safety valve

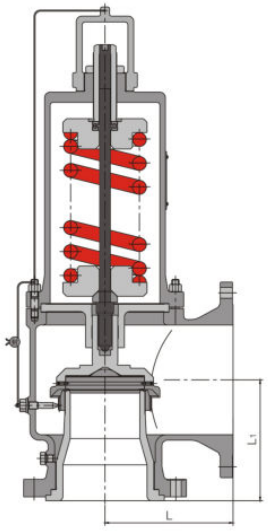
用途和特点

1、适用于炼油连续重整、乙烯、尿素、化肥、电厂、汽轮机等场合，起安全泄压作用。

2、根据用户介质、温度等特殊需要，分别可以采有不同材料、不同结构的安全阀。有适用于尿素化肥的双相不锈钢安全阀，适用于炼油用的波纹管平衡式安全阀，适用于电厂的合金钢高温安全阀。

Application & Features

1. Applicable to the environment of oil refining continuous reforming, there hundred thousand tons ethere, carbamide manure, power station steam turbine, take care for release pressure safety.
2. According to different medium, temperature and other special. We respective adopt in different material and structure safety valve. Such as ferrtic stainless steel safety valve suitable for carbamide manure, balance bellows safety valve suitable for oil refining, allay steel high temperature safety valve suitable for power station.



尺寸规格 Dimension & Specification

进口×出口 Inlet×Outlet	150Lb结构尺寸		300Lb结构尺寸		600Lb结构尺寸	
	L	L_1	L	L_1	L	L_1
10V14(250×198×350)	406.5	305	406.5	305	406.5	305
12W16(300×238×400)	406.5	355.5	406.5	355.5		
14Y18(350×277.5×450)	508	406.5	508	406.5		
16Z18(400×291×450)	508	406.5	508	406.5		
16Z$_1$18(400×300.5×450)	508	406.5	508	406.5		
16Z$_2$20(400×318.5×500)	533.5	432	533.5	432		
18AA24(450×356.8×600)	635	508	635	508		
20BB24(500×396.5×600)	635	508				
20BB$_2$24(500×415×600)	635	508				

注：有特殊要求的可以协商定制。
Note: If there are special demands, the valve can be custom-made by consulting.

TFASG系列高温蒸汽安全阀
TFASG Series high temperature safety valve for steam

用途 Application

适用于动力锅炉、裂解炉、直流锅炉、再热器及其他设备管道作超压保护。
Serve for over pressure protection of power boiler, decomposition boiler, once-through boiler, reheat and other pressure vessel and pipe.

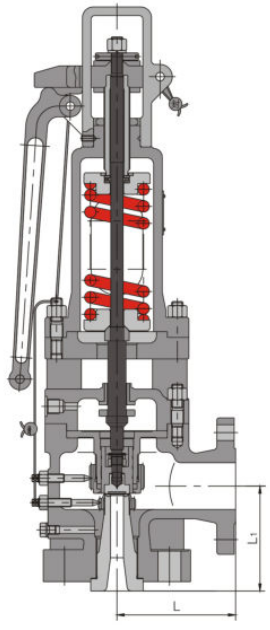
性能 Performance

符合ASME《锅炉和压力容器规范》第I卷动力锅炉要求。
Meet the requirements of ASME Boiler and pressure Vessel Code, Section I, power boilers.

特点 Features

1、采用背压套来调节回座压力，以达到极小的启闭压差。
2、高性能高温材料作弹性阀瓣材料，以保证高温下的密封性。
3、密封付表面堆焊钴基硬质合金，以防护高温蒸汽的气蚀。
4、一定的势态测试，使安全阀更接近工况条件。

1. Adjusting back Seat pressure with back pressure Jacket, to arrive minimum Blowdown.
2. High performance materials for high-temperature elastic valve materials to ensure sealing at high temperatures.
3. Sealed cobalt-based alloy surfacing paid to high-temperature steam cavitation protection
4. Tested under hot powition and make the safety valve approach to service condition.

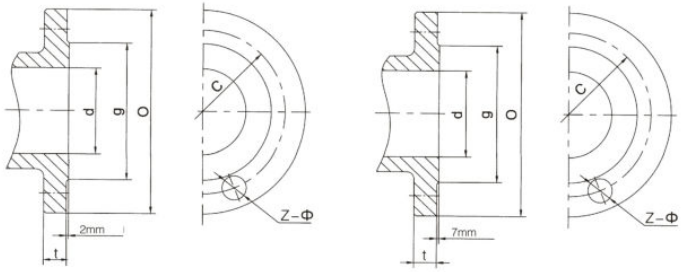


尺寸规格 Dimension & Specification

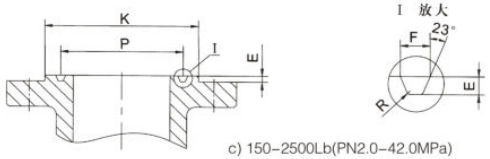
进口×出口 Inlet×Outlet	150Lb结构尺寸		300Lb结构尺寸		600Lb结构尺寸		900Lb结构尺寸		1500Lb结构尺寸		2500Lb结构尺寸	
	L	L_1	L	L_1	L	L_1	L	L_1	L	L_1	L	L_1
1×D×2	115	105	115	105	115	105						
1½×D×2							140	105	140	105		
1½×F×2	121	124	121	124	152	124					171	156
1½×F×3							165	124	165	124		
1½×G×3	121	124	121	124	152	124	165	124				
1½×H×3	124	130	124	130								
2×H×3			124	130	162	154	162	154	162	154		
2×J×3	124	136	124	136								
3×J×4			181	184	181	184	181	184	181	184		
3×k×4	162	156	162	156	162	156						
3×k×6							216	198	216	197		
3×L×4	165	156	165	156								
4×M×6	184	178	184	178	203	178	222	197				
4×N×6	210	197	210	197	222	197	222	197				
4×P×6	229	181	229	181	254	225	254	225				
6×Q×8	241	240	241	240	241	240						
8×T×10	276	279	276	279								

ASME/ANSI B16.5a法兰尺寸
ASME/ANSI B16.5a Flange size

ASME/ANSI B16.5a法兰尺寸 Flange size



a) 150–300Lb(PN2.5–5.0MPa)　　b) 600–2500Lb(PN11.0–42.0MPa)



c) 150–2500Lb(PN2.0–42.0MPa)

磅级 Class	(D)通径 Size		O	t	g	z	Φ	C	K	P	E	F	R
	inch	mm											
150	1/2	15	90	9.6	34.9	4	16	60.3					
	3/4	20	100	11.2	42.9	4	16	69.9					
	1	25	110	12.7	50.8	4	16	79.4	63.5	47.63	6.35	8.74	0.8
	1 1/4	32	115	14.3	63.5	4	16	88.9	73	57.15	6.35	8.74	0.8
	1 1/2	40	125	15.8	73	4	16	98.4	82.5	65.07	6.35	8.74	0.8
	2	50	150	17.5	92.1	4	18	120.7	102	82.55	6.35	8.74	0.8
	2 1/2	65	180	20.7	104.8	4	18	139.7	121	101.60	6.35	8.74	0.8
	3	80	190	22.3	127	4	18	152.4	133	114.30	6.35	8.74	0.8
	4	100	230	22.3	157.2	8	18	190.5	171	149.23	6.35	8.74	0.8
	6	150	280	23.9	215.9	8	22	241.3	219	193.68	6.35	8.74	0.8
	8	200	345	27	269.9	8	22	298.5	273	247.65	6.35	8.74	0.8
	10	250	405	28.6	323.8	12	26	362	330	304.80	6.35	8.74	0.8
300	1/2	15	95	12.7	34.9	4	16	66.7	51	34.14	5.56	7.14	0.8
	3/4	20	115	14.3	42.9	4	18	82.6	63.5	42.88	6.35	8.74	0.8
	1	25	125	15.9	50.8	4	18	98.4	70	50.80	6.35	8.74	0.8
	1 1/4	32	135	17.5	63.5	4	18	88.9	79.5	60.33	6.35	8.74	0.8
	1 1/2	40	155	19.1	73	4	22	114.3	90.5	68.27	6.35	8.74	0.8
	2	50	165	20.7	92.1	8	18	127	108	82.55	7.92	11.91	0.8
	2 1/2	65	190	23.9	104.8	8	22	149.2	127	101.60	7.92	11.91	0.8
	3	80	210	27	127	8	22	168.3	146	123.83	7.92	11.91	0.8
	4	100	255	30.2	157.2	8	22	200	175	149.23	7.92	11.91	0.8
	6	150	320	35	215.9	12	22	269.9	241	211.12	7.92	11.91	0.8
	8	200	380	39.7	269.9	12	26	330.2	302	269.88	7.92	11.91	0.8
	10	250	445	46.1	323.8	16	30	387.4	356	323.85	7.92	11.91	0.8

ASME/ANSI B16.5a法兰尺寸
ASME/ANSI B16.5a Flange size

ASME/ANSI B16.5a法兰尺寸 Flange size

磅级 Class	(D)通径 Size		O	t	g	z	Φ	C	K	P	E	F	R
	inch	mm											
600	1/2	15	95	14.3	34.9	4	16	66.7	51	34.14	5.56	7.14	0.8
	3/4	20	115	15.9	42.9	4	18	82.5	63.5	42.88	6.35	8.74	0.8
	1	25	125	17.5	50.8	4	18	88.9	70	50.80	6.35	8.74	0.8
	1 1/4	32	135	20.7	63.5	4	18	98.4	79.5	60.33	6.35	8.74	0.8
	1 1/2	40	155	23.3	73	4	22	114.3	90.5	68.27	6.35	8.74	0.8
	2	50	165	25.4	92.1	8	18	127	108	82.55	7.92	11.91	0.8
	2 1/2	65	190	28.6	104.8	8	22	149.2	127	101.60	7.92	11.91	0.8
	3	80	210	31.8	127	8	22	168.3	146	123.83	7.92	11.91	0.8
	4	100	275	38.1	157.2	8	26	215.9	175	149.23	7.92	11.91	0.8
	6	150	355	47.7	215.9	12	30	292.1	241	211.12	7.92	11.91	0.8
	8	200	420	55.6	269.9	12	33	349.2	302	269.88	7.92	11.91	0.8
	10	250	510	63.5	323.8	16	36	431.8	356	323.85	7.92	11.91	0.8
900	1/2	15	120	22.3	34.9	4	22	82.6	60.5	39.67	6.35	8.74	0.8
	3/4	20	130	25.4	42.9	4	22	88.9	66.5	44.45	6.35	8.74	0.8
	1	25	150	28.6	50.8	4	26	101.6	71.5	50.80	6.35	8.74	0.8
	1 1/4	32	160	28.6	63.5	4	26	111.1	81	60.33	6.35	8.74	0.8
	1 1/2	40	180	31.8	73	4	30	123.8	92	68.27	6.35	8.74	0.8
	2	50	215	38.1	92.1	8	26	165.1	124	95.25	7.92	11.91	0.8
	2 1/2	65	245	41.3	104.8	8	30	190.5	137	107.95	7.92	11.91	0.8
	3	80	240	38.1	127	8	26	190.5	156	123.83	7.92	11.91	0.8
	4	100	290	44.5	157.2	8	33	235	181	141.23	7.92	11.91	0.8
	6	150	380	55.6	215.9	12	33	317.5	241	211.12	7.92	11.91	0.8
	8	200	470	63.5	269.9	12	39	393.7	308	269.88	7.92	11.91	0.8
	10	250	545	69.9	323.8	16	39	469.9	362	323.85	7.92	11.91	0.8
1500	1/2	15	120	22.3	34.9	4	22	82.6	60.5	39.67	6.35	8.74	0.8
	3/4	20	130	25.4	42.9	4	22	88.9	66.5	44.45	6.35	8.74	0.8
	1	25	150	28.6	50.8	4	26	101.6	71.5	50.80	6.35	8.74	0.8
	1 1/4	32	160	28.6	63.5	4	26	111.1	81	60.33	6.35	8.74	0.8
	1 1/2	40	180	31.8	73	4	30	123.8	92	68.27	6.35	8.74	0.8
	2	50	215	38.1	92.1	8	26	165.1	124	95.95	7.92	11.91	0.8
	2 1/2	65	245	41.3	104.8	8	30	190.5	137	107.25	7.92	11.91	0.8
	3	80	265	47.7	127	8	33	203.2	168	136.53	7.92	11.91	0.8
	4	100	310	54	157.2	8	36	241.3	194	161.93	7.92	11.91	0.8
	6	150	395	82.6	215.9	12	39	317.5	248	211.12	9.53	13.49	1.5
	8	200	485	92.1	269.9	12	45	393.7	318	269.88	11.13	16.66	1.5
	10	250	585	108	323.4	12	51	482.6	371	323.85	11.13	16.66	1.5
2500	1/2	15	135	30.2	34.9	4	22	88.9	65	42.88	6.35	8.74	0.8
	3/4	20	140	31.8	42.9	4	22	95.2	73	50.80	6.35	8.74	0.8
	1	25	160	35	50.8	4	26	108	82.5	60.33	6.35	8.74	0.8
	1 1/4	32	185	38.1	63.5	4	30	130.2	102	72.23	6.35	8.74	0.8
	1 1/2	40	205	44.5	73	4	33	146	114	82.55	7.92	11.91	0.8
	2	50	235	50.9	92.1	8	30	171.4	133	101.60	7.92	11.91	0.8
	2 1/2	65	265	57.2	104.8	8	33	196.8	149	111.13	9.53	13.49	1.5
	3	80	305	66.7	127	8	36	228.6	168	127	9.53	13.49	1.5
	4	100	355	76.2	157.2	8	42	273	203	157.18	11.13	16.66	1.5
	6	150	485	108	215.9	8	55	368.3	279	228.60	12.70	19.84	1.5
	8	200	550	127	269.9	12	55	438.2	340	279.40	14.27	23.01	1.5
	10	250	675	165.1	323.8	12	68	539.8	425	342.90	17.48	30.18	2.4

不同K值气体特性系数C值 K values of different gases characteristic coefficient C values

K	C	K	C	K	C	K	C
1.00	315	1.20	337	1.40	356	1.60	372
1.02	318	1.22	339	1.42	358	1.62	374
1.04	320	1.24	341	1.44	359	1.64	376
1.06	322	1.26	343	1.46	361	1.66	377
1.08	324	1.28	345	1.48	3.63	1.68	379
.10	327	1.30	347	1.50	364	1.70	380
1.12	329	1.32	349	1.52	366	2.00	400
1.14	331	1.34	351	1.54	368	2.20	412`
1.16	333	1.36	352	1.56	369		
1.18	335	1.38	354	1.58	371		

不同K值气体特性系数C值 K values of different gases characteristic coefficient C values

整定压力MPa Setting pressure (15.6℃)	最大允许泄漏(泡/分) The maximum allowable leakage (bubbles/min)	
	喉径小于F Throat diameter smaller than F	喉径大于F Throat diameterlarger than F
0.103–6.896	40	20
10.3	60	30
13.2	80	40
17.2	100	50
20.7	100	60
27.6	100	80
38.5	100	100
41.4	100	100

质量服务承诺

Commitment on quality service

·本公司的产品均按国际标准或相应的产品标准制造，出厂前均进行严格的检验。

·本公司接到订单后，严格按照合同条款的有关规定进行制造、检验、包装、发货，并保证产品按时送达指定地点。

·产品保修期为自交付日起十八个月。在保修期内产品确因质量问题而引起的不正常工作或损坏，本公司负责免费修理或调换。如因用户使用不当引起的损坏或不正常工作，本公司可提供维修服务。用户如有需要，本公司可到现场指导安装调试，本公司还为用户提供售前、售后的技术咨询。

·用户在使用本公司产品的过程中所出现的问题或信息，请及时与我们联系，以便进行妥善处理和改进，使我们的产品更能符合您的要求。

·客户有问题致电本公司，我们将在2小时内给予明确答复。如有必要，在国内的用户我们将在48小时之内上门提供服务。对于国外的用户我们将在最短的时间到达现场服务。

·The products of our company are manufactured according to the international standard and the corresponding product standard. They are strictly checked before leaving the factory.

·After our company receives the order,we will carry out the manufacture,inspection,packaging and delivery strictly according to the relevant stipulations in the contract,and we guarantee the products can be delivered to the designated location in time.

·The guarantee period is 18 months since the delivery date of product. During the guarantee period,in case of any improper work or damage due to the quality problem of the product,our company will be responsible for the repair or replacement free of charge. If the product is damaged or can't work normally due to the improper use of customers,our company will provide the maintenance service. If customers require,our company can direct the installation and debug on the spot. Our company also provides the customers with the technical consultation before the sale and after the sale.

·Any problem occurred during the use of our product,please contact us in time,so that we can deal with it properly and improve it to make our products meet your requirements.

·Any questions provided by customers through phone to our company,we will give our definite reply within 24 hours. If it is necessary,for the domestic customers,we will provide door-to-door service within 48 hours. For the customers abroad,we will reach the spot to provide the service at the shortest time.