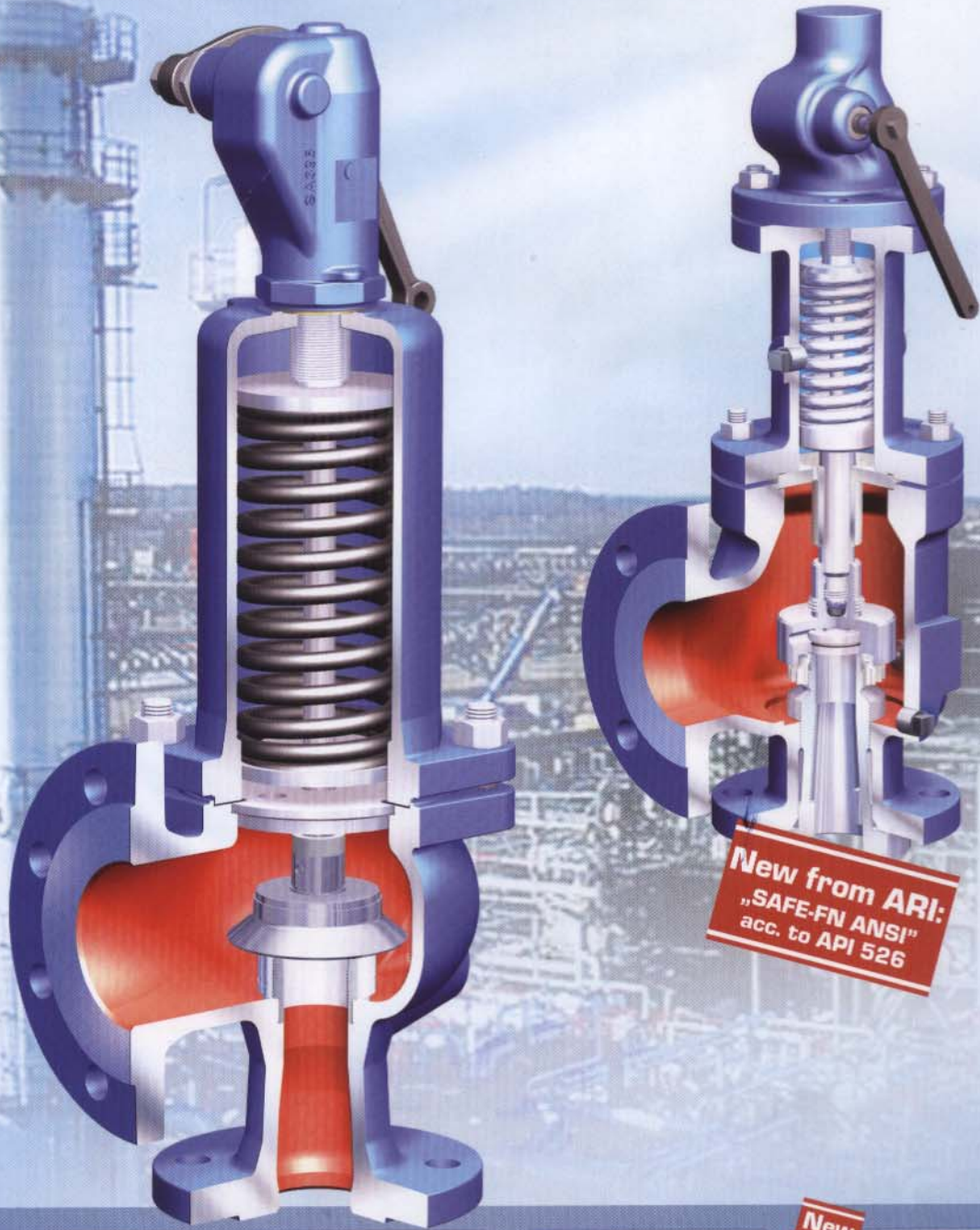


SAFE

Cost-effectiveness through reliability!



New from ARI:
„SAFE-FN ANSI“
acc. to API 526



SAFE
full lift safety valve



SAFE-P
for small capacities



SAFE TC
thread connection



SAFE-TCP / TCS
for high press. up to PN100



SAFE-FN ANSI
according to API 526



SAFE

Your complete safety system!



Better Efficiency:

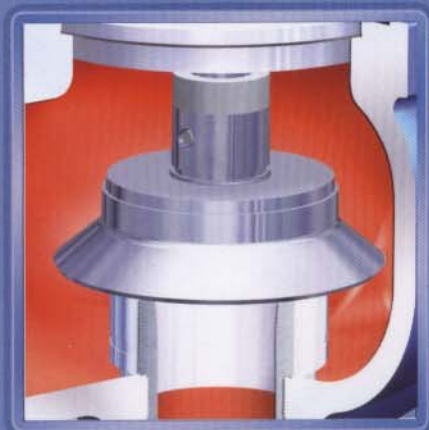
- due to application of modern construction features - (seat in high resistant steel CrNi, better flow characteristics due to contouring of flow area, precision guided disc and spindle).
- opening pressure of max. 1.1 x set pressure.
- HVAC valve approval (fig. 903) up to 16 bar.

Better Reliability:

- type test approval by VdTUV (all SAFE products including rupture discs).
- through ASME-certification of National Board (USA).
- with balanced piston and protection rim as standard for stainless steel bellows.
- minimum emissions (stainless steel bellows seal variation available for SAFE/SAFE-P/SAFE-TC).

Better Economy:

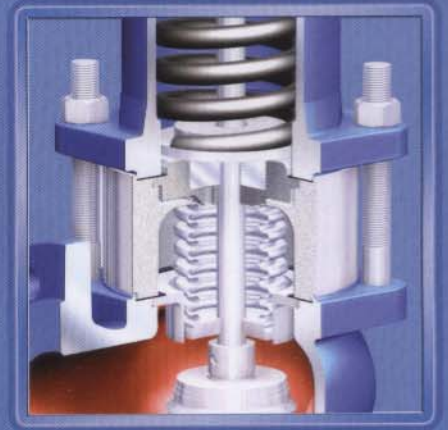
- cost savings (extended life through hardened disc).
- easier servicing due to removable lift aid at the disc (standard for stainless steel versions).
- through a long lifetime (springs KTL coated).
- economic spring selection (large uniform set pressure ranges).
- ARI-myValve® Calculation Program for valve sizing.
- New SAFE-Check service for testing installed safety valves (patent-pending test device that works without increasing the boiler pressure or interrupting operation of the plant; no media loss)



Raised seat made from CrNi and a precision-guided stem means robust sealing



Removable lift aid (standard for stainless steel variants): simplified servicing



Stainless steel bellows with balanced piston and protection rim: bellows seal

Construction options:

Closed bonnet,
open bonnet,
with / without lifting device,
gas-tight / non gas-tight,
EPDM - or metal bellows seal available
Metal rupture disc

Requirements

DIN EN ISO 4126-1;
VdTÜV-leaflet - Safety valves 100;
TRD 421 / 721 - Safety valves - for
steamboiler groups II and IV;
AD2000-A2 Safety valves;
API526

Type

direct-loaded,
spring loaded

Material / Temperatures

| | |
|-----------|--|
| EN-JL1040 | -10°C up to +300°C |
| EN-JS1049 | -10°C up to +350°C |
| 1.0619+N | -60°C up to +450°C |
| 1.4408 | -60°C up to +400°C |
| 1.4581 | -60°C up to +300°C |
| SA216WCC | -29°C up to +427°C (-20°F up to +800°F) |
| SA217WC6 | -29°C up to +538°C (-20°F up to +1000°F) |
| SA351CF8M | -268°C up to +538°C (-450°F up to +1000°F) |

Inlet-Diameters

DN 15 up to DN 150;
NPS 1/2" up to 8"

Nominal pressures

PN16 up to PN100;
ANSI 150 up to ANSI 2500

Set pressures

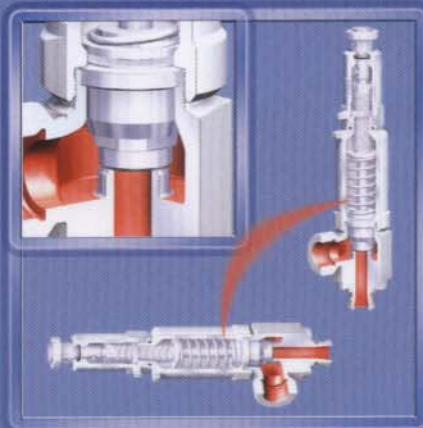
0,2 bar up to 100 bar
5 psi up to 6000 psi

Applications

to relieve steam,
gas or liquid pressure from
pressure vessels



HVAC valve with EPDM plug and EPDM bellows seal; permanent sealing and pro-




SAFE-TCS thread connection with special plug guiding; also for horizontal installa-



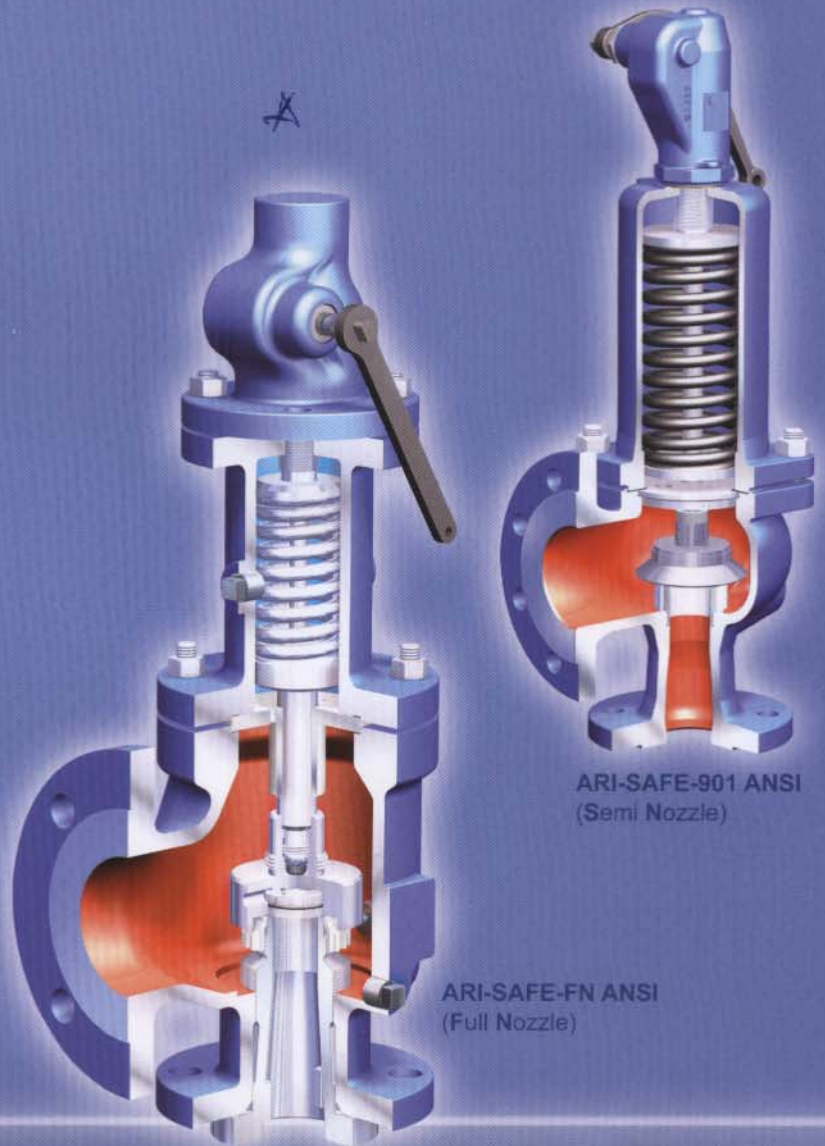
SAFE-Check: for testing the installed safety valve without increasing the boiler

New from ARI: „SAFE-FN ANSI“ - Complete range according to API 526::

Accurate response, reversible plug, optimal plug guiding – up to 6000 psi (414 bar)!

 Certified according to ASME-Code with UV-Stamp

- Reliable and durable: precise repeatability of the set pressure and increased service life due to the accurately centred nozzle (nozzle thread close to the seat)
- Durable: increased service life due to protection against crevice corrosion (nozzle thread close to the seat)
- Simple handling: easy to service due to reversible plug (sealing surfaces can be used on both sides)
- Reliable: high level of reliability due to optimal guiding of the plug on the seat (two-piece stem)
- Simple handling: multifunctional conversion in a few simple steps thanks to the modular system (standardised trim)
- Simple handling: straightforward replacement of the plug sealing plate
- Flexible + simple handling: broad spectrum of applications due to the standardised O-ring soft sealing plug
- Simple handling: identical nozzle ring for each orifice size (code letters)
- Durable: increased service life due to the corrosion-resistant bellows seal made of Inconel 625; bellows also provides back pressure compensation as standard



ARI-SAFE-901 ANSI
(Semi Nozzle)

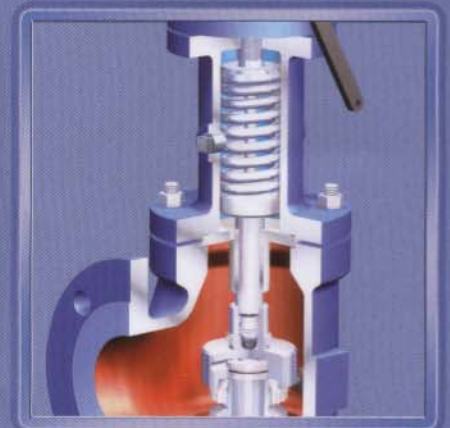
ARI-SAFE-FN ANSI
(Full Nozzle)



Accurately centred nozzle (nozzle thread close to the seat) assures precise



Flip-over plug (the sealing plates can be used on both sides) assures simple



Two-piece stem assures optimal guiding of the plug on the seat

myValve
Order now your
myValve® sizing program.



Variable & safe: the ARI-“SAFE“-program in about **35.000** variations!



SAFE More Efficiency. More Reliability. More Economy.

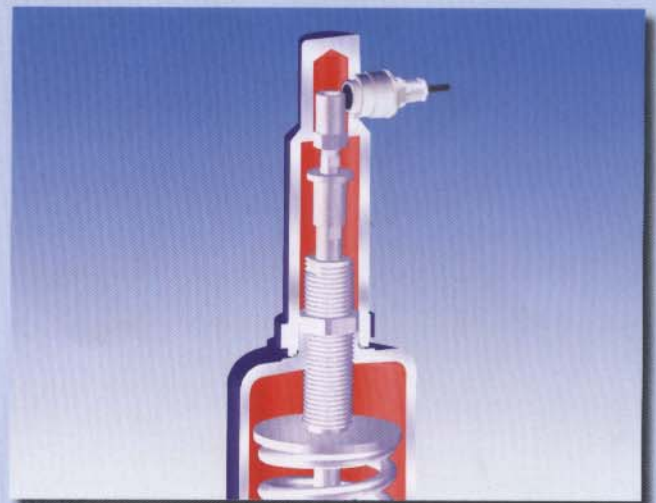
New from ARI:
"SAFE-FN ANSI"
acc. to API 526



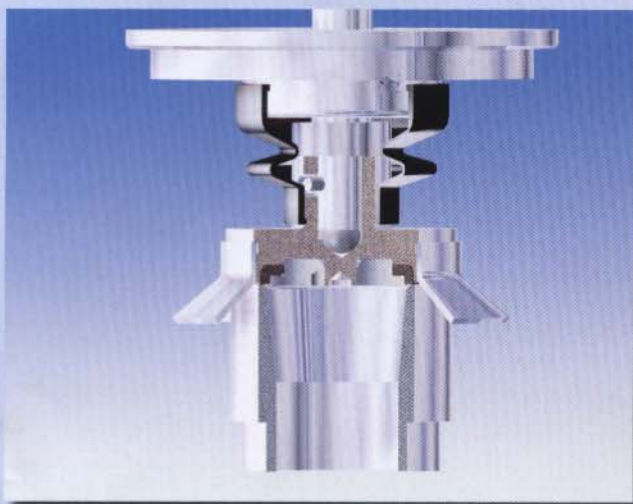
Your Reliability through modern Technology:

ARI-SAFE-FN 970 ANSI (FullNozzle) /
ARI-SAFE-SN 900 ANSI (SemiNozzle) :
Accurate response, reversible plug, optimal plug guiding
– up to 6000 psi (414 bar)!

Soft sealing disc (optional):
Aflas / BUNA-N / Chemraz / EPR / Fluoraz / Kalrez® /
Silicone / Viton® / EPDM / Neopren

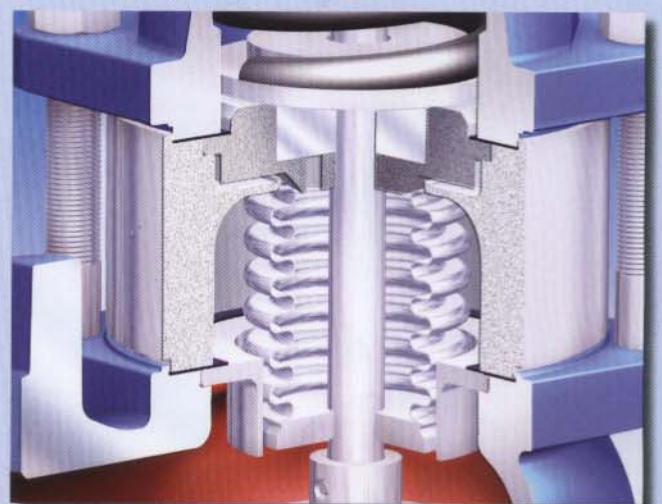


Intregated proximity switch;
feedback signal returned to control room for example



Your Economy through Longlife:

EPDM-bellows seal, softsealed disc;
Longlife tightness, corrosion and dirt protection
EPDM: -35°C to +150°C / Viton: -25°C to +180°C /
Neoprene: -30°C to +125°C



Stainless steel-bellows seal; spindle protected from dirt and
corrosion. Back pressure compensated.

B

