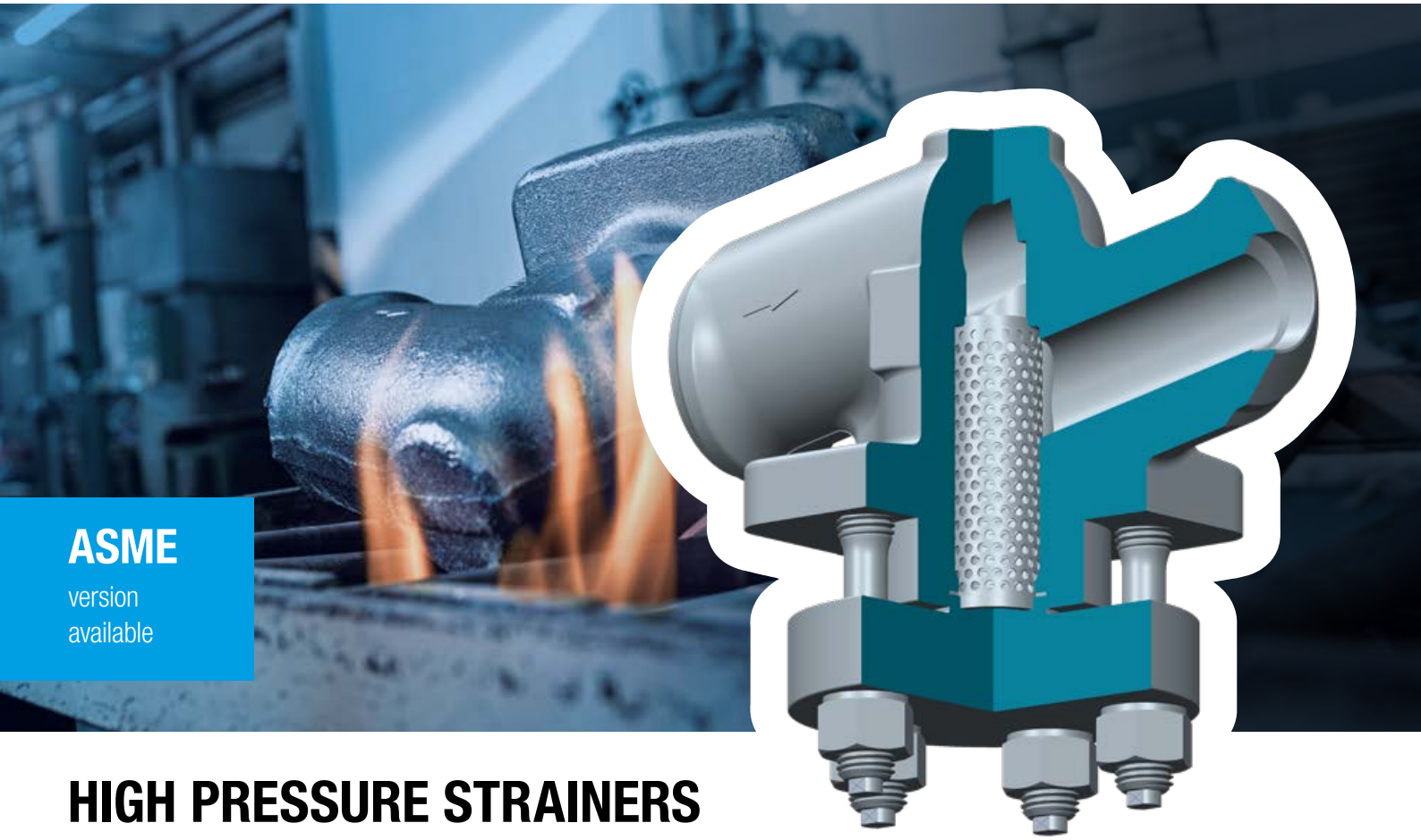


HIGH PRESSURE STRAINERS

990 ST PN 500 DN 10-65

Design highlights

- Body and pressure sealing cover made of forged steel
- Body bolted on in two pieces
- Body seal with male and female connection
- Different mesh sizes

Advantages

- Free of pores and cavities compared to cast steel
- Improved service options, e.g. replacing the screen cylinders
- Blow-out-proof seal
- Individually selectable according to degree of soiling and medium

Subject to technical modifications

Version
- Body forged in flow passage form
- Bolted cover
- Compact design
- Also available in angular design (992 ST)

Operating data
- Operating pressure up to 680 bar
- Operating temperature up to 650 °C
- Maximum differential pressure between the inlet side and outlet side: 2 bar

Materials
- 1.0460
- 1.4550
- 1.4901
- 1.4903
- 1.5415
- 1.7335
- 1.7383

Other materials and screen mesh sizes available on request.

Screen mesh sizes
0.25 mm
0.50 mm
1.00 mm

Flow media
Depending on the choice of materials, the high pressure strainers can be used for water, steam, gas or other non-aggressive low viscosity liquids.

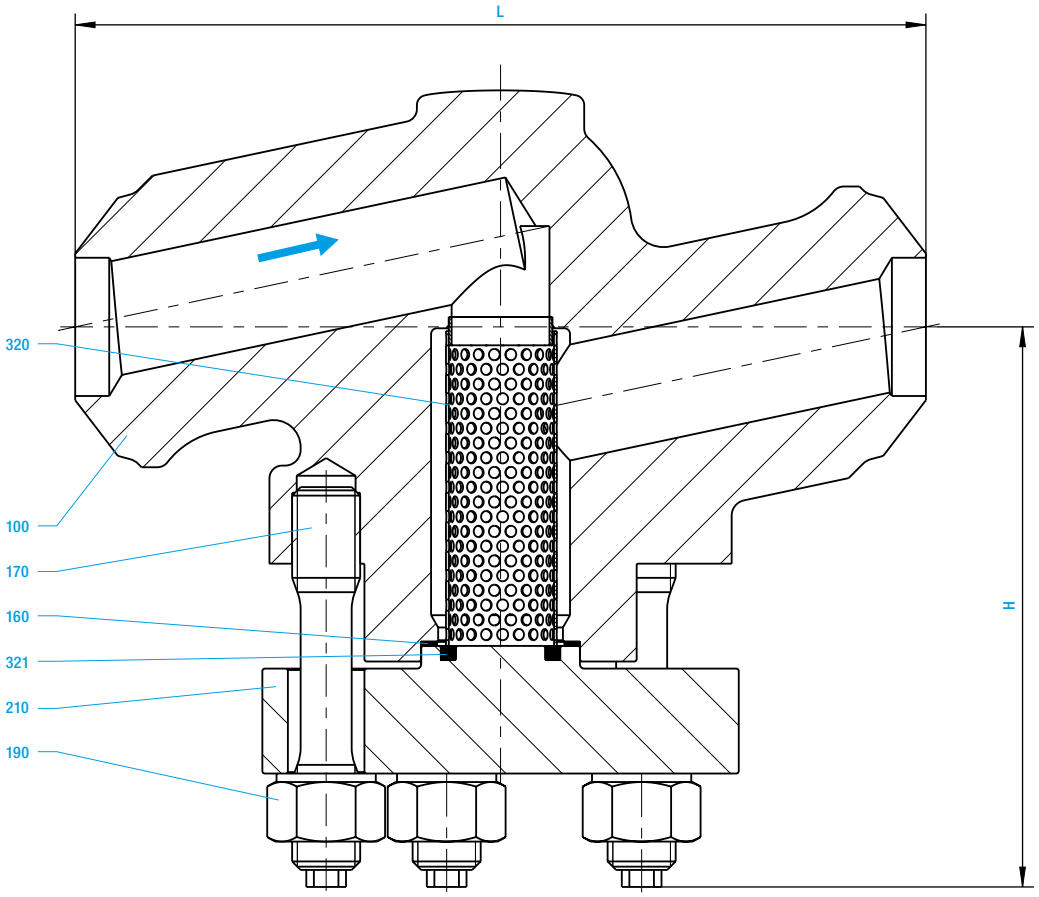
Applications
In chemical, industrial, process engineering and power plants.

Area of application

Permissible operating pressure [bar(g)] at calculation temperature [°C] [1)]

Material	PN	20	50	100	120	150	200	250	300	350	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650
1.0460	**500**	550	550	550	550	550	550	518	463	389	315	300	285	270	255	240	213	177	146																	
1.5415	**500**	550	550	550	550	550	550	550	550	537	518	514	510	507	503	500	496	493	489	426	333	253	200	160												
1.7335	**500**	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	500	426	338	275	222	173	142	116								
1.7383 [2)]	**500**	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	500	437	381	333	289	252	214	189	163	140	124					
1.4903 [2)]	**500**	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	500	465	430	380	338	298	261	231	198	172
1.4901 [2)]	**500**	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	562	470	419	370	322	278	241	207
1.4550 [2)]	**500**	550	550	550	550	550	550	544	504	481	463	460	456	454	451	449	447	445	443	442	441	440	439	438	437	437	436	435	434	433	396	363	320	271	240	207

1) Operating temperature = calculation temperature minus temperature surcharge according to the standard codes.
2) For temperatures > 570 °C, stem material 1.4980, seat armoured with Stellite, and high-temperature packing.



Subject to technical modifications

Materials

Item	Designation	1.0460 (21)	1.5415 (42)	1.7335 (44)	1.7383 (45)	1.4903 (63)	1.4901 (66)	1.4550 (89)
100	Body	1.0460	1.5415	1.7335	1.7383	1.4903	1.4901	1.4550
160	*Seal*	*Graphite*	*Graphite*	*Graphite*	*Graphite*	*Graphite*	*Graphite*	*Graphite*
170	Bolt	1.4923	1.4923	1.4923	1.4923	1.4986	1.4986	1.4986
190	Hexagonal nut	1.4923	1.4923	1.4923	1.4923	1.4986	1.4986	1.4986
210	Cover	1.7383	1.7383	1.7383	1.7383	1.4903	1.4901	1.4550
320	*Screen cylinder*	*1.4571*	*1.4571*	*1.4571*	*1.4571*	*1.4571*	*1.4571*	*1.4571*
321	*Packing ring*	*Graphite*	*Graphite*	*Graphite*	*Graphite*	*Graphite*	*Graphite*	*Graphite*

Spare parts

Dimensions/mm

DN	L	H
10	150	100
15	150	100
20	180	127
25	180	127
32	300	198
40	300	198
50	300	198
65	350	251

Note: for turned weld connections the permissible operating pressures for the appropriate pipe dimensions apply.

Weight/kg

DN	Welded ends
10	3.7
15	3.7
20	7.6
25	7.4
32	29.8
40	29.3
50	28.8
65	65