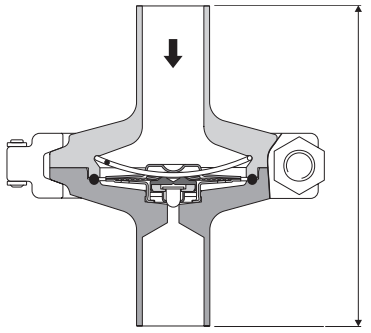
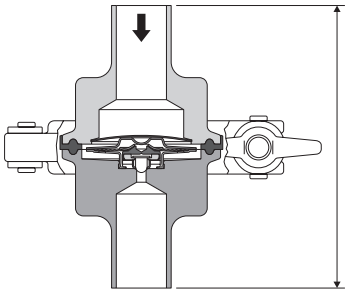
GESTRA Steam Trap SMK 22-81
for SIP applications

GESTRA has added a low-cost variant type SMK 22-81 to its product range of steam traps for SIP applications. Like the field-proven types SMK 22 and SMK 22-51, the new SMK 22-81, too, features the high-quality GESTRA capsule with regulating membrane. This regulating capsule ensures rapid warming up and immediate condensate discharge without any banking-up, thereby guaranteeing absolutely safe and reliable sterilization processes.

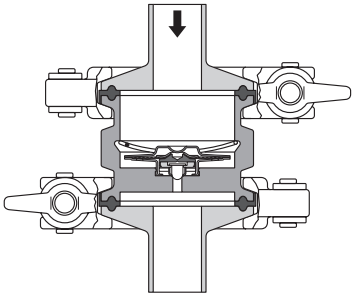
Like all other traps of the SMK series, the new SMK 22-81 is also made from stainless steel type 1.4404. Thanks to the design of the trap fewer welded connections are necessary and, if required, the functional unit can be exchanged without having to bend the line.



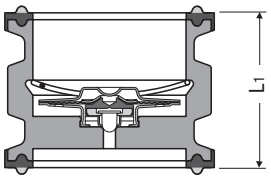
SMK 22, DN 15



SMK 22-51



SMK 22-81



Functional unit SMK 22-81, SMK 22-82

Application

Type	
SMK 22	**Virtually pocket-free** For small and medium condensate flowrates. Internal surface roughness Ra ≤ 0.8 µm machine faced, optionally up to Ra ≤ 0.4 µm electropolished.
SMK 22-51	**Virtually pocket-free** For small and medium condensate flowrates. Internal surface roughness Ra ≤ 0.8 µm machine faced, optionally Ra ≤ 0.6 µm machine faced.
SMK 22-81	**Virtually pocket-free** For small and medium condensate flowrates. Functional unit easy to exchange. Internal surface roughness Ra ≤ 0.8 µm machine faced, optionally Ra ≤ 0.6 µm machine faced.
SMK 22-81	**Virtually pocket-free** For medium and large condensate flowrates. Functional unit easy to exchange. Internal surface roughness Ra ≤ 0.8 µm machine faced, optionally Ra ≤ 0.6 µm machine faced.
Functional unit SMK 22-81	**Virtually pocket-free** For small and medium condensate flowrates. Internal surface roughness Ra ≤ 0.8 µm machine faced, optionally Ra ≤ 0.6 µm machine faced. Connection via socket for mounting between clamps DIN 32676-DN 40.
Functional unit SMK 22-82	**Virtually pocket-free** For medium and large condensate flowrates. Internal surface roughness Ra ≤ 0.8 µm machine faced, optionally Ra ≤ 0.6 µm machine faced. Connection via socket for mounting between clamps DIN 32676-DN 40.

Pressure/Temperature Ratings

Type	PN / Class	ΔPMX	Material		Pressure/Temp. Rating[1]			
			EN	ASTM	PMA	TMA	p/T	
		[bar]			[bar]	[°C]	[bar/°C]	
SMK 22	PN 10	6	1.4435	A276 316L[2]	10,0	185[3]	10.0 / 20	6.0 / 185[3]
SMK 22-51	PN 10	6	1.4404	A182 316L[2]	10,0	185[3]	10.0 / 20	6.0 / 185[3]
SMK 22-81 SMK 22-82	PN 10	6	1.4404	A182-316L[2]	10,0	185[3]	10.0 / 20	6.0 / 185[3]
Functional unit SMK 22-81	PN 10	6	1.4404	A182-316L[2]	10,0	185[3]	10.0 / 20	6.0 / 185[3]

[1] Limits for body/cover. Functional requirements may restrict the use to below the limits quoted. For full details on limiting conditions depending on end connection and type of regulator see data sheet.

[2] ASTM nearest equivalent is stated for guidance. Physical and chemical properties comply with EN.

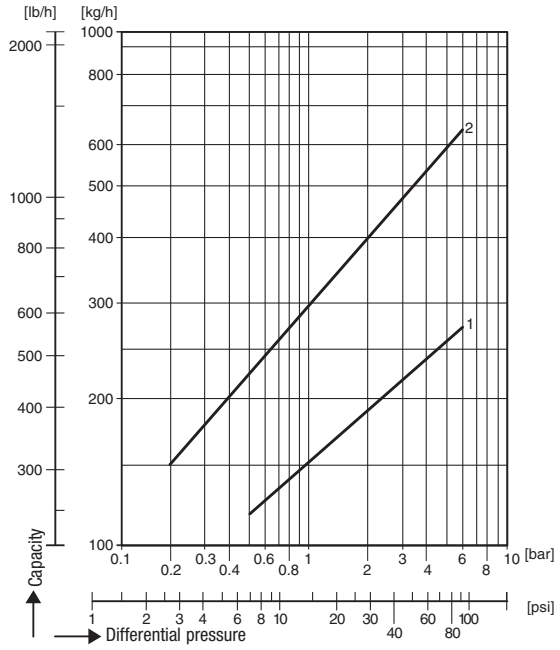
[3] 185 °C with PTFE gasket, 150 °C with EPDM gasket.

Available End Connections and Overall Length

Type	Connections	Overall length (L) in mm								
		DN 10 3/8"	DN 15 1/2"	DN 20 3/4"	DN 25 1"	DN 50 2"	DN 65 2 1/2"	DN 80 3"	DN 100 4"	DN 150 6"
SMK 22	Butt-weld ends	83	83	83	83	–	–	–	–	–
	Clamp	65	65	65	65	–	–	–	–	–
SMK 22-51	Butt-weld ends	90	90	90	90	–	–	–	–	–
	Clamp	65	65	65	65	–	–	–	–	–
SMK 22-81	Butt-weld ends	96	96	96	96	–	–	–	–	–
	Clamp 50.5	–	–	–	65	–	–	–	–	–
Functional unit SMK 22-81 SMK 22-82	Socket for mounting between clamps DIN 32676-DN 40									
	L1 standard	–	–	–	35	–	–	–	–	–
	L1 long	–	–	–	45	–	–	–	–	–
	L1 very long	–	–	–	65	–	–	–	–	–

Capacity Charts

SMK 22, SMK 22-51



The chart shows the maximum capacities for hot and cold condensate.

Curve 1
This curve indicates the max. capacity of hot condensate that the steam trap with regulating membrane Steri*line* can discharge with virtually no banking-up.

Curve 2
This curve shows the max. capacity of cold condensate that the steam trap can discharge (20 °C at start-up).

Other steam traps and non-return valves for sterile and aseptic applications:

MK 45A-1 and MK 45A-2	see pages 8 – 9
MK 36/51 and MK 36/52	see pages 8 – 9
UNA 16A	see pages 10 – 12
UNA 26A	see pages 10 – 12
VKE stainless steel	see pages 27 – 28
RK 86A	see pages 40 – 41
RK 16A	see pages 42 – 43
RK 26A	see pages 44 – 45