

Application

BA 46, BA 47, BA 210, BA 211, ZK 29	Valve with adjustable stage nozzle and sample valve for continuous blowdown of steam boilers and evaporators.
BAE 46, BAE 47, BAE 210, BAE 211, ZKE 29	Valve with adjustable stage nozzle, sample valve, and electric actuator for automatically controlled continuous blowdown. Especially suited for boilers operating without constant supervision (TRD 604).

Pressure/Temperature Rating According to EN 1092-1 (2013) for: 1.0460 in accordance with PED and AD 2000 or A105 according to Pressure Equipment Directive (PED).

Type	Ratings according to		Boiling point [°C] at max. pressure [bar] = T_s/p_{max}
BA 46 / BAE 46	PN 40 1.0460	EN 1092-1	238/31
	PN 40 A105	EN 1092-1	238/31
	Class 150 A105	ASME B16.34	198/14
	Class 300 A105	ASME B16.34	254/42
BA 47 / BAE 47	PN 63 1.0460	EN 1092-1	261/47
	PN 63 A105	EN 1092-1	261/47
	Class 600 A105	ASME B16.34	271/55
BA 210 / BAE 210	PN 250 1.0460	DIN 2401	348/161
BA 211 / BAE 211	PN 320 1.7335	DIN 2401	374/220
ZK 29 / ZKE 29	PN 160 1.7335	EN 1092-1	336/138

End connections

Type	Flanged EN	Flanged ASME	Socket-weld	Butt-weld
BA 46 / BAE 46	●	●	●	–
BA 47 / BAE 47	●	●	●	–

Dimensions BA 46, BAE 46 [mm]

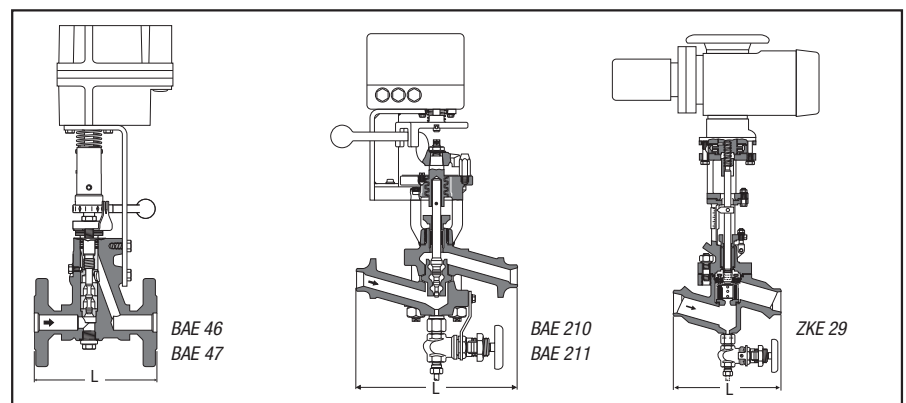
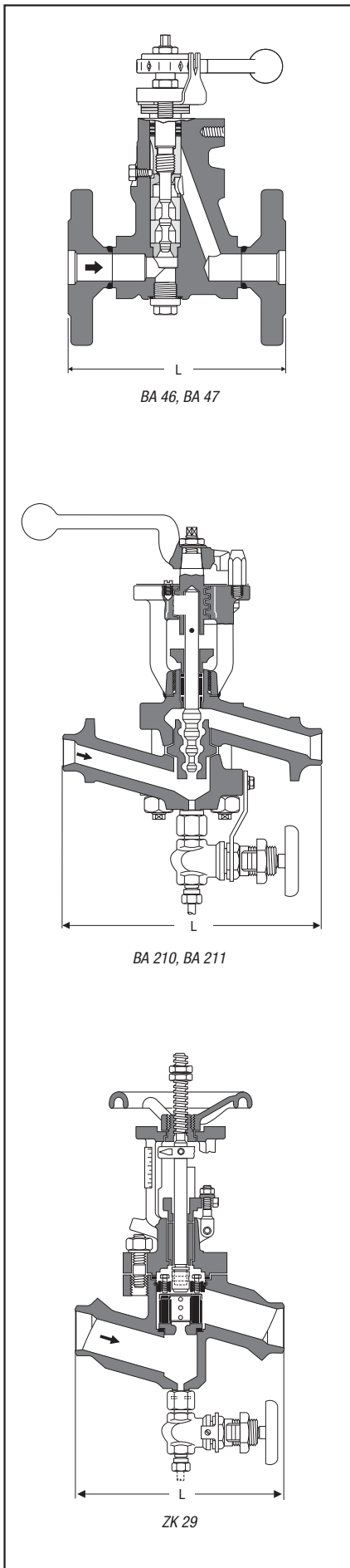
Connections	DN	15	20	25	32	40	50
Flanged EN	L	150	150	160	180	200	230
Flanged ASME Class 150	L	150	150	160	180	230	230
Flanged ASME Class 300	L	150	150	160	180	230	230
Socket-weld	L	200	200	200	200	250	250

Dimensions BA 47, BAE 47 [mm]

Connections	DN	15	20	25	32	40	50
Flanged EN	L	–	–	190	–	220	250
Flanged ASME Class 600	L	–	–	216	–	216	250
Socket-weld	L	–	–	200	–	250	250

Dimensions BA 210, BAE 210, BA 211, BAE 211 [mm]

Connections	DN	15	20	25	32	40	50
Flanged EN	L	–	–	410	–	–	–
Flanged ASME Class 600	L	–	–	410	–	–	–
Flanged ASME Class 900/1500	L	–	–	440	–	–	–
Socket-weld	L	–	–	300	–	–	–



Capacity Charts

Chart 1: BA 46, BA 47, DN 15-32
BAE 46, BAE 47, DN 15-32

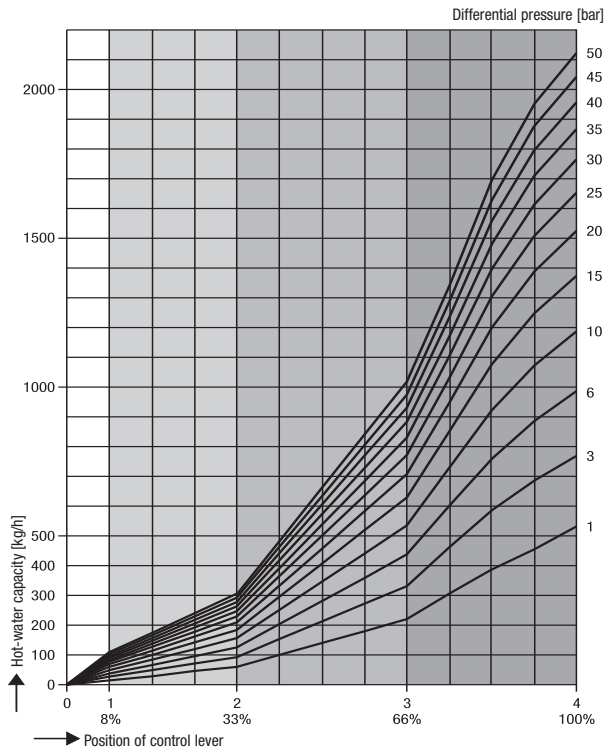


Chart 2: BA 46, BA 47, DN 40/50
BAE 46, BAE 47, DN 40/50

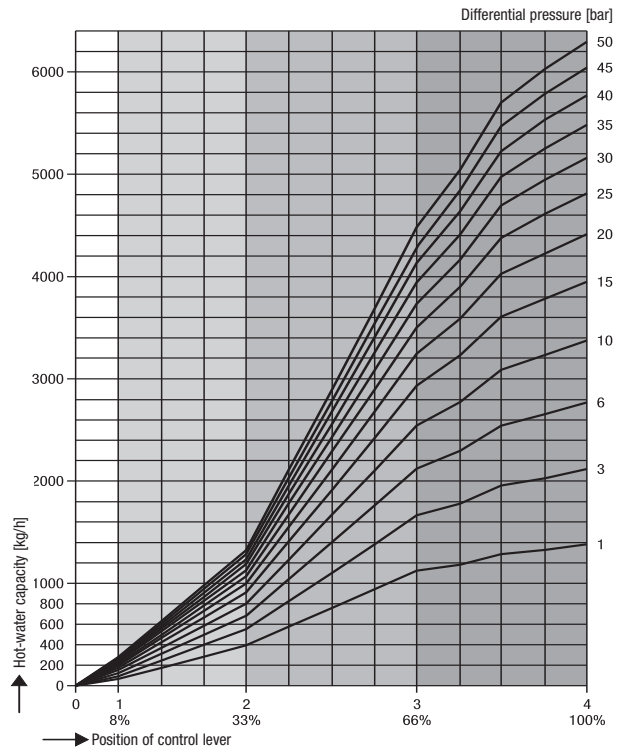


Chart 3: BA 210, BA 211
BAE 210, BAE 211

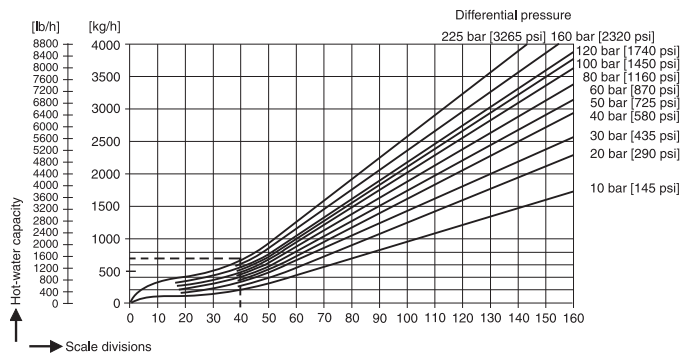
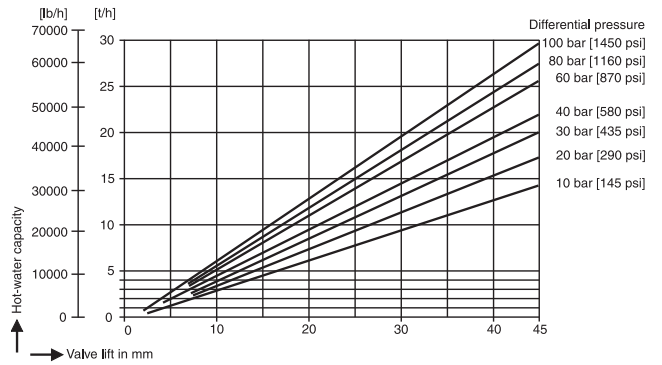


Chart 4: ZK 29
ZKE 29



1) For relatively small quantities (dotted line in chart) use 210 k or 211 k (with special stage nozzle).

Chart 5: BAE 210k, 211k

