ARMATUREN

Stop valve with bellow seal

FABA LONG LIFE

ARI-FABA ® Long Life - Stop valve with bellow seal, maintenance-free

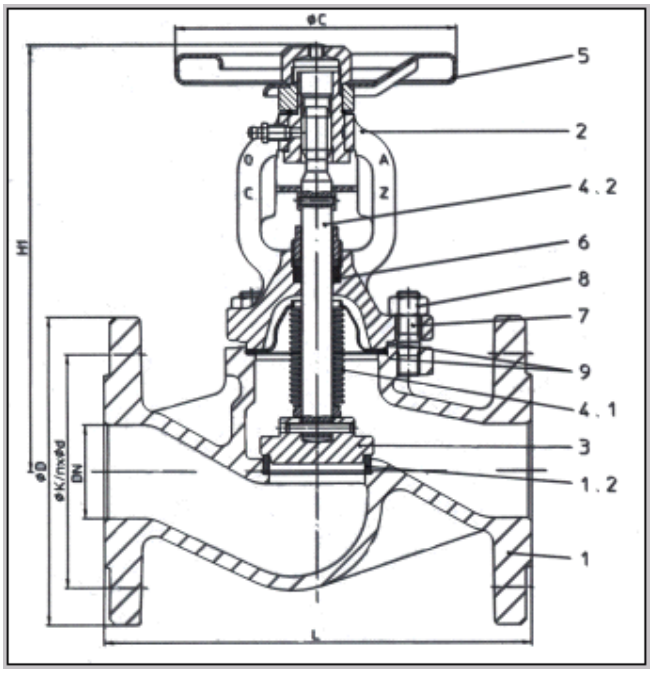


Figure	Nom. Pressure	Materials	Nom. Diameter
12.046	PN 16	GG-25	DN 15-300
22.046	PN 16		DN 15-350
	Test: DIN-DVGW-Reg. NG-4313AO 0772		
23.046	PN 25	GGG-40,3	DN 15-150
34.046	PN 25	1.0619+N	DN 200-400
	Test: TU.A/TUV.AR 186-00		
	DIN-DVGW-Reg. NG-4314AO 0777		
35.046	PN 40	1.0619+N	DN 15-150
	Test: TU.A/TUV.AR 186-00		
	DIN-DVGW-Reg. NG-4314AO 0788		
Test: TA-Air TUV-Test-No. 088-945053			
DN 15-100 Throttling plug as standard			

Selection of possible apllications:

-Industry
-Powerstations
-Flue gas purification plant
-Processing Technology
-Gas supply
-Vapour facilities
-Thermal oil applications
-Recycling facilities
-Vacuum facilities
-Ammonia
-Hot water
-Heating technology
-District heating
-cooling and freezing system
-General plant manufacturing
-Steam systems

Weights (kg)

Figure-No.	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
12.046/22.046/23.046	3.7	4.4	5.1	7.5	8.8	12.2	16.1	21.4	33.0	51.0	69.0	105.0	180.0	265.0	360.0	-	-
34.046	4.3	4.8	6.3	7.3	10.3	12.6	19.0	25.0	35.0	56.0	74.0	144.0	238.0	339.0	380.0	650.0	-
35.046	4.3	4.8	6.3	7.3	10.3	12.6	19.0	25.0	35.0	56.0	74.0	-	-	-	-	-	-

Globes valves with flanges: Face to face length FTF series 1 according to DIN EN 558-1 (DIN 3202-1 series F1)
Angle pattern globe valves with flanges: Face to face length CTF series 8 according to DIN EN 558-1 (DIN 3202-1 series F32)
Globe valves with butt weld ends: Face to face length according to DIN 3202-2 series S7

Figure		12.046;	22./23.046;	34./35, 40./35.044;	45.040;
		12.047	22./23.047	34./35.046, /35.047;	45.046
				34,/35.066; 35.067; 35.068	45.067
Part	Description	Material, Material-Nr.			
1	Body	GG-25, 0.6025	GGG-40,3 0.7043	1.0619+N, 1.0619,01 (GS-C25N)	C 22.8, 1.0460
1,2	Seat	X 20 Cr 13, 1,4021,05		DN<=50: X 20 Cr 13, 1.4021,05; DN>50: 1.4551	X 5 CrNiNb 19-9, 1.4551
2	Bonnet	GGG-40.3, 0.7043	GGG-40.3, 0.7043	DN<=80: C 22.8, 1.0460; DN>80: 1.0619+N, 1.0619.01 (GS-C25N)	C 22.8, 1.0460
3	Plug	DN<= 200: X 20 Cr 13, 1.4021.05; DN>200: P265 GH(Kbl.Hll) DIN 17155, / X 5 CrNiNb 19-9, 1.4551			X 20 Cr13, 1.4021.05
4,1	Bellow	X 6 Cr Ni Mo Ti 17122, 1.4571			
4,2	Spindle	X 20 Cr 13, 1.4021.05		bei FABA LA: X 6 CrNiTi 19-10, 1.4541	
5	Handwheel	DN<=125: St coated; DN>125: GG-25, 0.6025 coated			St 12-03 coated
6	Gland packing	Pure graphite			
7	Hex. Screws/Studs	5,6	24 CrMo 5, 1.7258		
8	Hexagon nuts	-	Ck 35, 1.1181		
9	Seal	CrNi laminated both sides with pure graphite			

Information/restriction of technical rules to be observed!
ARI-Valves of GG-25 are both allowed in systems acc. To TRD 110.
A production allowance acc. To TRB 801 Nr. 45 exists.(acc.801 Nr. 45 GG-25 is not allowed.)
The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

ARI-FABA flow diagrams see technical annex

Leakage rate according to DIN 3230-3 (leakage rate 1)
Alternative description DIN 3356,,valves"

Flanges according to DIN 2533 / 2544 / 2545
Butt weld ends according to DIN 3239

CE-marking for applications acc. To Pressure Eguipment Directive on request (identification obligation from >= DN 32)

Pressure temperature classification										
Material	PN	Temperature								
		-60℃ till <-10℃*	-10℃	120℃	200℃	250℃	300℃	350℃	400℃	450℃
GG-25	16	-	16 bar	16 bar	13 bar	11 bar	10 bar	-	-	-
GGG-40,3	16	-	16 bar	16 bar	13 bar	13 bar	13 bar	10 bar	-	-
GGG-40,3	25	-	25 bar	25 bar	20 bar	18 bar	16 bar	15 bar	-	-
1,0619+N / C 22,8	25	12,5 bar	25 bar	25 bar	22 bar	20 bar	17 bar	16 bar	13 bar	10 bar
1,0619+N / C 22,8	40	20 bar	40 bar	40 bar	35 bar	32 bar	28 bar	24 bar	21 bar	18 bar

*Studs and nuts made of A4-70

Standard-flange dimensions												
DN	PN 6			PN 16			PN 25			PN 40		
	øD	Øk	nxød1	øD	Øk	nxød1	øD	Øk	nxød1	øD	Øk	nxød1
15	80	55	4X11	95	65	4X14	95	65	4X14	95	65	4X14
20	90	65	4X11	105	75	4X14	105	75	4X14	105	75	4X14
25	100	75	4X11	115	85	4X14	115	85	4X14	115	85	4X14
32	120	90	4X14	140	100	4X18	140	100	4X18	140	100	4X18
40	130	100	4X14	150	110	4X18	150	110	4X18	150	110	4X18
50	140	110	4X14	165	125	4X18	165	125	4X18	165	125	4X18
65	160	130	4X14	185	145	4X18	185	145	8X18	185	145	8X18
80	190	150	4X18	200	160	8X18	200	160	8X18	200	160	8X18
100	210	170	4X18	220	180	8X18	235	190	8X22	235	190	8X22
125	240	200	8X18	250	210	8X18	270	220	8X26	270	220	8X26
150	265	225	8X18	285	240	8X22	300	250	8X26	300	250	8X26
200	320	280	8X18	340	295	12X22	360	310	12X26	375	320	12X30
250	-	-	-	405	355	12X26	425	370	12X30	450	385	12X33
300	-	-	-	460	410	12X26	485	430	16X30	515	450	16X33
350	-	-	-	520	470	16X26	555	490	16X33	580	510	16X36
400	-	-	-	580	525	16X30	620	550	16X36	660	585	16X39
500	-	-	-	715	650	20X33	730	660	20X36	755	670	20X42

Please indicate when ordering:

1. Figure-No.
2. Nominal pressure (PN)
3. Nominal diameter (DN)
4. Special design/accessories

Example:
Figure 35.046; nominal pressure PN 40; nominal diameter DN 100.

Dimension in mm
Weigths in kg
1 bar ^= 10^5 Pa ^= 0.1 Mpa
Kvs in m^3/h
1 Kvs ^= 0.85 Cv

ARI-Strainer, made of cast iron, nodular iron and cast steel

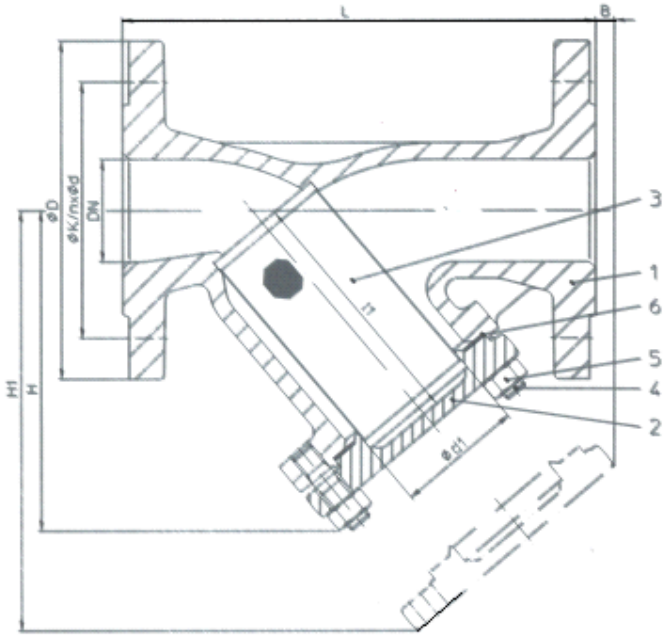


Figure	Nominal pressure	Material	Nominal diameters
10.050	PN 6	GG-25	DN 15-200
12.050	PN 16	GG-25	DN 15-300
22.050	PN 16	GGG-40.3	DN 15-300
23.050	PN 25	GGG-40.3	DN 15-150
34.050	PN 25	1.0619+N	DN 15-200
35.050	PN 40	1.0619+N	DN 15-200

Selection of possible applications:

>industry
>Powerstations
>Flue gas purification plant
>Processing technology
>Gas supply
>Vapour facilities
>Thermal oil applications
>Recycling facilities
>Vacuum plant
>Amonia
>Hot water
>Heating plant
>Distric heating
>Cooling and freezing systems
>General plant manufacturing
>Steam systems

Other application on request

Weights (kg)

Figure No. (DN)	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
10.050	2,5	3,0	4,5	5,5	7,0	9,0	13,0	19,0	26,0	38,0	54,0	110,0					
12.050	3,0	4,0	5,0	7,0	9,0	12,0	16,0	21,0	30,0	43,0	61,0	121,0	154,0	255,0			
22.050	3,5	4,0	5,5	7,0	9,0	12,0	16,0	21,0	28,0	41,0	58,0	115,0	154,0	255,0	on request possible		
23.050	3,5	4,0	5,5	7,0	9,0	12,0	16,0	21,0	32,0	47,0	64,0	-			in straighway form		
34.050	4,0	5,0	6,0	8,0	10,0	13,0	19,0	24,5	35,0	51,0	71,0	144,0					
35.050	4,0	5,0	6,0	8,0	10,0	13,0	19,0	24,5	35,0	51,0	71,0	144,0					

Pressure temperature classification										
Material	PN	Temperature								
		-60℃ till <-10℃*	-10℃	120℃	200℃	250℃	300℃	35 0℃	400℃	450℃
GG-25	6	-	6 bar	6 bar	5 bar	5 bar	5 bar	-	-	-
GG-25	16	-	16 bar	16 bar	13 bar	11 bar	10 bar	-	-	-
GGG-40.3	16	-	16 bar	16 bar	13 bar	13 bar	13 bar	10 bar	-	-
GGG-40.3	25	-	25 bar	25 bar	20 bar	18 bar	16 bar	15 bar	-	-
1.0619+N / 1C22TN	25	12,5 bar	25 bar	25 bar	22 bar	20 bar	17 bar	16 bar	13 bar	10 bar
1.0619+N / 1C22TN	40	20 bar	40 bar	40 bar	35 bar	32 bar	28 bar	24 bar	21 bar	18 bar

Material	PN	Temperature								
		-60℃ till <+20℃*	20℃	100℃	150℃	200℃	250℃	300 ℃	350℃	400℃
1.4408	16	8 bar	16 bar	13 bar	11,5 bar	10,5 bar	9,5 bar	9 bar	8,3 bar	8 bar
1.4408	25	12,5 bar	25 bar	20 bar	18 bar	16 bar	15 bar	14 bar	13 bar	12,5 bar
1.4408	40	20 bar	40 bar	32 bar	29 bar	26 bar	24 bar	22 bar	21 bar	20 bar

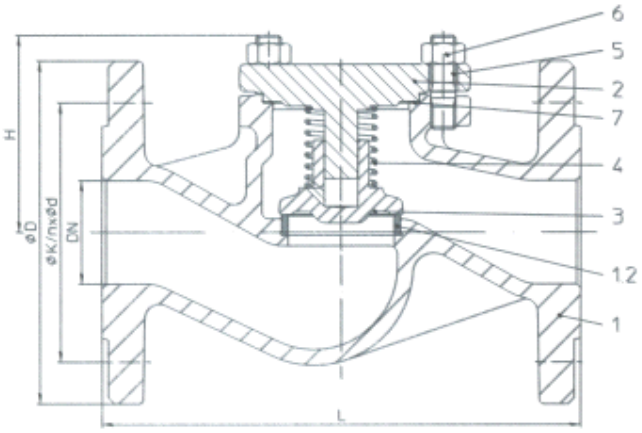
Dimensions, kvs- and zeta-values / parts

DN	L	H	H1	H2	H3	B	Screen standard (w)	Screen fine (w)	d1	d2	l1	l2	Standard screen Y-pattern kvs	Standard screen Y-pattern zeta	Fine screen Y-pattern kvs	Fine screen Y-pattern zeta	Y-pattern V1)
15	130	90	135	94	130	10	1	0,25	23,0	25,0	56	48	6,9	1,7	6,2	1,9	10,0
20	150	100	150	94	138	10			28,0	25,0	68	48	10,8	2,2	10,1	2,4	8,4
25	160	115	180	102	150	25			36,0	31,0	82	57	17,8	1,9	16,8	2,4	8,3
32	180	125	205	102	143	35			42,0	36,0	98	57	26,1	2,4	24,3	2,8	7,1
40	200	150	235	123	166	45			50,0	46,0	114	68	36,7	3,0	32,9	3,7	6,8
50	230	160	250	126	172	45			61,5	55,5	119	70	61,0	2,7	49,5	4,0	5,2
65	290	180	285	148	206	25	1,25		78,5	69,5	134	85	98,6	2,9	80,3	4,9	4,4
80	310	215	330	170	234	40			89,5	85,5	149	97	146,0	3,0	115,0	4,9	3,7
100	350	235	365	202	282	55	1,6		109,5	105,5	169	112	234,0	2,9	189,0	4,4	2,8
125	400	275	425	285	388	65			137,5	131,5	199	138	376,0	2,7	303,0	4,2	2,7
150	480	305	480	320	443	50			160,0	159,0	224	169	394,0	4,5	405,0	4,3	2,4
200	600	390	610	417	585	80			210,0	210,0	284	230	652,0	5,5	590,0	6,7	2,3
250	730	540	915	-	-	230			258,0	-	434	-	1225,0	4,1	1231,0	4,1	2,7
300	850	680	1110	-	-	350			308,0	-	555	-	1873,0	3,7	1883,0	3,6	2,9
350	large diameters on request																
400																	
500																	
1) V=Ratio of the free screening surface to the surface of the nominal diameters																	
Zeta-value...with tolerance out of the kv-value-calculation according to VDI/VDE 2173																	
Dimensions of flanges see page 5 or flange slide																	

Y-Strainer with flanges: Face to face length FTF series 1 according to DIN EN 558-1 (DIN 3202-1 series F1)
Y-Strainer with butt weld ends: Face to face length according to DIN 3202-2 series S7

Figure		10./12.050	22./23.050	34./35.050; 34./35.080;	52./55.059
Part	Description	Material, Material-No.			
1	Body	GG-25, 0.6025	GGG-40.3, 0.7043	1.0619+N, 1.0619.01 (GS-C25N)	1.4408
2	Cover	DN<200: GG-25, 0.6025 DN200: P265 GH (Kbl.HI) DIN 17155	DN<100: GGG-40.3, 0.7043 DN100: P265 GH (Kbl,HI) DIN 17155	DN<100: 1C22TN, 1.0460 (C22.8) DN100: P265 GH (Kbl,HI) DIN 17155	X 6 CrMoTi 17-12, 1.4571
3	Screen	X 5 CrNi 18-9, 1.4301			X 6 CrMoTi 17-12, 1.4571
3.1	Supporting basket*	X 5 CrNi 18-9, 1.4301			X 6 CrMoTi 17-12, 1.4571
4	Studs	24 CrMo 5, 1.7258			A 4-70
5	Hexagon nuts	Ck 35, 1.1181			A 4
6	Seal	CrNi laminated both sides with pure graphite			
8	Bleed screw**	Ck 35, 1.1181			
9	Sealing ring	St			
*Necessary at higher differential pressures (higher price) **Bleed screw only on request (higher price)					

ARI-Check, made of cast iron, nodular iron and cast steel



Selection of possible applications:

>industry	>Vacuum plant
>Powerstations	>Amonia
>Flue gas purification plant	>Hot water
>Processing technology	>Heating plant
>Gas supply	>Distric heating
>Vapour facilities	>Cooling and freezing systems
>Thermal oil applications	>General plant manufacturing
>Recycling facilities	>Steam systems

Other application on request

Figure	Nominal pressure	Material	Nominal diameters
10.003	PN 6	GG-25	DN 15-200
12.003 / 303	PN 16	GG-25	DN 15-300
22.003 / 303	PN 16	GGG-40.3	DN 15-350
23.003 / 303	PN 25	GGG-40.3	DN 15-150
34.003 / 303	PN 25	1.0619+N	DN 15-500
35.003 / 303	PN 40	1.0619+N	DN 15-500

Weights (kg)

Figure No. (DN)	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
10003	2,4	2,9	3,5	4,8	6,4	8,2	12,2	18,6	27,0	42,0	67,0	112,0	-	-	-	-	-
12. 003	2,4	3,0	3,8	5,7	7,4	10,3	15,2	20,4	31,0	49,0	69,0	132,0	198,0	278,0	-	-	-
22. 003	3,5	4,0	5,0	6,0	8,0	11,0	16,0	21,0	31,0	49,0	69,0	132,0	198,0	278,0	383,0	-	-
23. 003	3,5	4,0	5,0	6,0	8,0	11,0	16,0	21,0	32,0	51,0	70,0	-	-	-	-	-	-
34. 003	3,8	4,9	5,9	7,1	10,4	12,3	22,7	28,5	40,0	64,0	90,0	160,0	222,0	337,0	461,0	709,0	989,0
35. 003	3,8	4,9	5,9	7,1	10,4	12,3	22,7	28,5	40,0	64,0	90,0	170,0	240,0	374,0	508,0	786,0	1044,0

Pressure temperature classification										
Material	PN	Temperature								
		-60℃ till <-10℃*	-10℃	120℃	200℃	250℃	300℃	35 0℃	400℃	450℃
GG-25	6	-	6 bar	6 bar	5 bar	5 bar	5 bar	-	-	-
GG-25	16	-	16 bar	16 bar	13 bar	11 bar	10 bar	-	-	-
GGG-40.3	16	-	16 bar	16 bar	13 bar	13 bar	13 bar	10 bar	-	-
GGG-40.3	25	-	25 bar	25 bar	20 bar	18 bar	16 bar	15 bar	-	-
1.0619+N / C22.8	25	12,5 bar	25 bar	25 bar	22 bar	20 bar	17 bar	16 bar	13 bar	10 bar
1.0619+N / C22.8	40	20 bar	40 bar	40 bar	35 bar	32 bar	28 bar	24 bar	21 bar	18 bar

Material	PN	Temperature								
		-60℃ till <+20℃*	20℃	100℃	150℃	200℃	250℃	300 ℃	350℃	400℃
1.4408	16	8 bar	16 bar	13 bar	11,5 bar	10,5 bar	9,5 bar	9 bar	8,3 bar	8 bar
1.4408	25	12,5 bar	25 bar	20 bar	18 bar	16 bar	15 bar	14 bar	13 bar	12,5 bar
1.4408	40	20 bar	40 bar	32 bar	29 bar	26 bar	24 bar	22 bar	21 bar	20 bar

Dimensions, kvs- and zeta-values / parts

DN	L	l	H	H1	H2	kvs-values				zeta-values			
						straight way	straight way forged steel	Y pattern	Angle pattern	straight way	straight way forged steel	Y-pattern	Angle pattern
15	130	90	70	40	75	3,9	3,3	4,8	4,7	5,2	7,2	3,4	3,4
20	150	95	70	35	75	6,8	5,5	8,5	7,5	5,3	7,3	3,4	4,4
25	160	100	80	45	90	11,0	9,2	13,0	14,0	5,2	7,1	3,3	3,0
32	180	105	80	45	90	18,0	15,0	22,0	22,0	5,0	7,2	3,2	3,3
40	200	115	85	55	110	27,0	29,3	34,0	40,0	5,3	7,3	3,4	2,4
50	230	125	95	60	110	43,0	36,0	53,0	50,0	5,2	7,4	3,3	3,8
65	290	145	110	65	135	71,0	-	88,0	81,0	5,4	-	3,5	4,2
80	310	155	130	95	160	111,0	-	138,0	119,0	5,1	-	3,3	4,4
100	350	175	155	105	200	173,0	-	216,0	181,0	5,1	-	3,2	4,7
125	400	200	165	120	245	265,0	-	331,0	285,0	5,3	-	3,4	4,6
150	480	225	215	150	300	377,0	-	469,0	397,0	5,4	-	3,5	4,9
200	600	275	285	195	390	667,0	-	832,0	710,0	5,5	-	3,5	4,9
250	730	325	325	220	470	1053,0	-	1315,0	-	5,4	-	3,4	-
300	850	375	365	240	550	1504,0	-	1876,0	-	5,4	-	3,4	-
350	980	425	420	300	-	2042,0	-	2553,0	-	5,5	-	3,5	-
400	1100	475	430	310	-	2725,0	-	3406,0	-	5,3	-	3,3	-
500	1350	525	530	380	-	4167,0	-	5207	-	5,5	-	3,5	-

Zeta-value... with tolerance out of the kv-value-calculation according to VDI/VDE 2173

Dimensions of flanges see page 9 or flange slide

Check valve with flanges: Face to face length FTF series 1 according to DIN EN 558-1 (DIN 3202-1 series F1)

Y pattern check valve with flanges: Face to face length FTF series 1 according to DIN EN 558-1 (DIN 3202-1 series F1)

Angle pattern check valve with flanges: Face to face length CTF series 8 according to DIN EN 558-1 (DIN 3202-1 series F32)

Check valve butt weld ends: Face to face length according to DIN 3202-2 series S7

Figure		10.003;	22../23.003;	34./35.003	12.303;	22./23.303;	34./35.303;	45.003;	52./54./
		12.003	22./23.004	34./35.004	12.304	22./23.304	34./35.304	45.030	55.003;
		12.004		35.063; 35.030					55.039
Part	Description	Material, Material No.							
1	Body	GG-25, 0.6025	GGG-40.3,	1.0619+N	GG-25, 0.6025	GGG-40.3,	1.0619+N	C22.8, 1.0460	14.408
			0.7043	1.0619.01		0.7043	1.0619.01		
				(GS-C25N)			(GS-C25 N)		
1.2	Seat	DN ≤ 50: X 20 Cr 13, 1.4021.05; DN.50: 1.4551			GZ-CuSn 5 Zn Pb*, 2.1096.03 code number 02			X 5 CrNiB 19-9,	-
					G-CuSn 10*, 2.1050 code number 03			1.4551	
2	Cover	GG-25, 0.6025	GGG-40.3,	DN ≤ 80;	GG-25, 0.6025	GGG-40.3,	DN ≤ 80;	C22.8, 1.0460	X 6 CrNiMoTi
			0.7043	C22.8, 1.0460		0.7043	C22.8, 1.0460		17-12-2, 1.4571
				DN > 80: P265 GH			DN > 80: P265 GH		
				(Kbl.HI) DIN 17155			(Kbl.HI) DIN 17155		
3	Plug	DN ≤ 200: X 20 Cr 13, 1.4021.05			GZ-CuSn 5 Zn Pb*, 2.1096.03 code number 02			X 20 Cr13,	X 6 CrNiMoTi
		DN > 200: P265 GH (Kbl.HI) DIN 17155 /			G-CuSn 10*, 2.1050 code number 03			1.4021.05	17-12-2, 1.4571
		X 5 CrNiNb 19-9, 1.4551							
4	Resetting spring	X 12 CrNi 17-7, 1.4310			X 12 CrNi 17-7, 1.4310			X 12 CrNi 17-7, 1.4310	
5	Hexagon screw;	5.6	24 CrMo 5, 1.7258		5.6	24 CrMo 5, 1.7258		24 CrMo 5,	A 4-70
	Studs							1.7258	
6	Hexagon nuts	-	Ck 35, 1.1181		-	Ck 35, 1.1181		Ck 35, 1.1181	A 4
7	Seal	CrNi laminated both sides with pure graphite							
Set pressure 0,1 bar									
*Max. operating temperature 225 °C									

SAFE

ARI-SAFE- Full lift safety valve D/G
Standard safety valve F

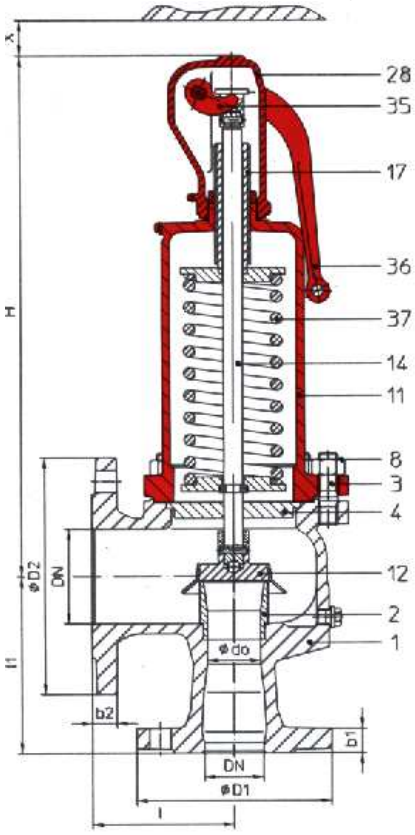


Fig...901
closed lifting device
closed bonnet

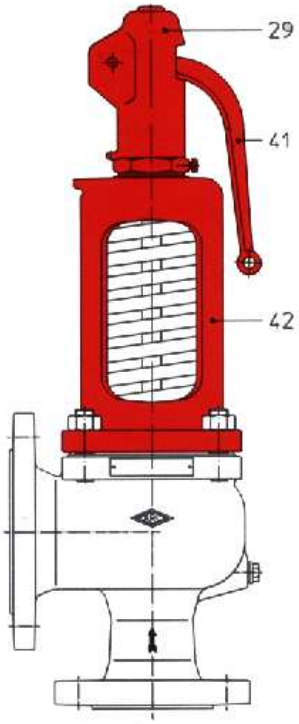


Fig...902
open lifting device
open bonnet

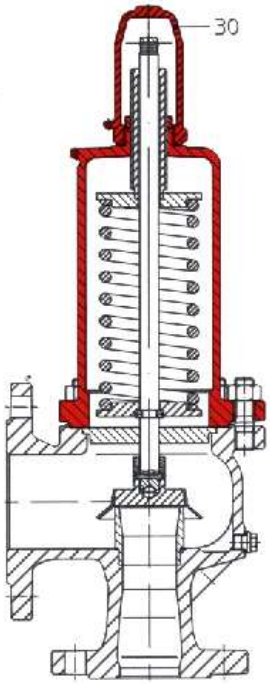


Fig...911
gastight cap
closed bonnet

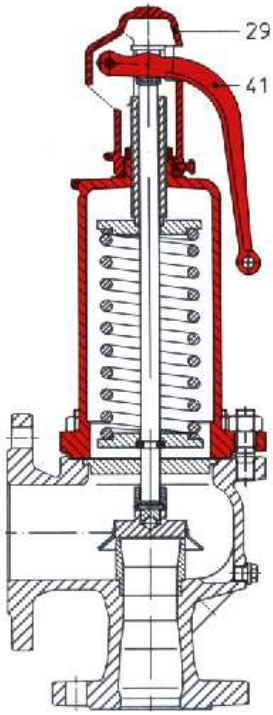


Fig...912
open lifting device
closed bonnet

Figure	Nom. Pressure	Material	Nominal diameter	Temperature range	Flanges
12.901 / 902 / 911 / 912	PN 16 / 16	GG-25	DN 20/32 up to DN 150/250	-10℃ up to +300℃	DIN 2533 / 2533
25.901 / 902 / 911 / 912	PN 40 / 16	GGG-40.3	DN 20/32 up to DN 100/150	-10℃ up to +350℃	DIN 28607 / 28605
35.901 / 902 / 911 / 912	PN 40 / 16	1.0619+N	DN 20/32 up to DN150/250	-10℃ up to +450℃	DIN 2545 / 2543
55.901 / 911	PN 40 / 16	1.4408	DN 20/32 up to DN 100/150	-60℃ up to +400℃	DIN 2545 / 2543
Type-test opproval	Full lift valve:	TUV · SV ·..-663 · D/G		(Stand. Valve 0,2-0,5 bar)	set gauge pressure see
	Standard valve:	TUV · SV ·..-729·F		DN 20-150	,,Capacity"
Requirement	Acc. To VdTUV-leaflet 100, AD-leaflet A2, TRD 421, material selection observe TRB 801 No. 45!				
Application	GG-25; GGG-40.3; 1.0619+N	steam, neutral gases, vapours and liquids			
	1.4408	steam, aggressive gases, vapours and liquids			
	CE-marking for applications acc. To Pressure Equipment Directive				
Construction	Safety valve, spring loaded, direct loaded				
Sizing	For steam, air and water see capacity tables, calculation acc. To DIN 3320 part 1, TRD 421 and AD-A2,				
	necessary information for valve layout:				
Medium gasform:	Mass flow (kg/h), molar mass (kg/mol), temperautre (℃), set gauge pressure (bar), bac k gauge pressure (bar)				
Medium liquid:	Mass flow (kg/h), density (kg/m³), viscosity, temperature (℃), Set gauge pressure (bar), back gauge pressure (bar)				
Order data:	ARI-SAFE-safety valve - Figure…..,DN…/…,PN../..,Material…….,set gauge pressure….bar				

DN		20/32	25/40	32/50	40/65	50/80	65/100	80/125	100/150	125/200	150/250
Weight(kg)		8,5	10	14	20	28	40	53	80	125	165
Weight, bellow design (kg)		9,5	11,5	16	22,5	32	47	59	90	-	-
Allowed statical stabil-	GG, GGG, 1.0619+N	16 bar				13 bar	12 bar	10 bar	8 bar	-	
ity valve outlet 20℃	1.4408	16 bar							10 bar	-	

Part	Description	Material, Material-No.				
1	Body	GG-25, 0.6025	GG-40.3, 0.7043	1.0619+N(GS-C25N)	1.4408	1.4571
2	Seat	1.4571				-
2a	Screwed seat SAFE-TC	-	1.4571	-	1.4571	-
3	Stud	1.7258			A4-70	-
4	Spindle guide	1.4021.05			1.4571	1.4571
8	Hexagon nut	1.1181			A4	-
11	Bonnet, closed	GG-25, 0.6025	GGG-40.3, 0.7043		1.4408	1.4571 / GGG-40.3
12	Disc unit	1.4122.05			1.4571	1.4571
14	Spindle	1.4121.05			1.4571	1.4571
17	Adjustingscrew	1.4121.05			1.4571	1.4571
27	O-Ring	-	-	-	-	FPM
28	Cap, closed	GG-25, 0.6025	GGG-40.3, 0.7043		1.4408	1.4571
29	Cap, open	GG-25, 0.6025	GGG-40.3, 0.7043		1.4408	1.4571
30	Cap, gastight	GG-25, 0.6025	GGG-40.3, 0.7043		1.4408	1.4571
35	Lift fork	GGG-40.3, 0.7043			1.4408	-
35a	Lifting lever SAFE-TC	GGG-40.3, 0.7043			1.4571	-
36	Lifting lever, closed	GGG-40.3, 0.7043			1.4571	3.2581.02 Alu
37	Spring	50 Cr V4, 54 SiCr 6			1.4310	1.4310 / 54 SiCr 6
41	Lever, open	GGG-40.3, 0.7043			-	-
42	Bonnet, open	GG-25, 0.6025	GGG-40.3, 0.7043		-	-
43	Bellow	EPDM				-
55	Bellow unit	1.4571			1.4571	-
61	Coupling SAFE-TC	-	1.4571	-	1.4571	-
62	Weight	Pb/St	-	-	-	-
63	Guide bush SAFE TCS	-	-	-	-	1.4571
65	Coupling SAFE TCP / TCS	-	-	-	-	1.4571
66	O-Ring	-	-	-	-	FPM
67	Lift button SAFE TCP / TCS	-	-	-	-	1.4571

Pressure-temperature-classification										
Material	PN	Temperature								
		-60℃ till <-10℃*	-10℃	120℃	200℃	250℃	300° C	350℃	400℃	450℃
GG-25	16	-	16 bar	16 bar	13 bar	11 bar	10 bar	-	-	-
GGG-40.3	40	-	40 bar	40 bar	32 bar	28 bar	24 bar	20 bar		-
1.0619+N	40	20 bar	40 bar	40 bar	35 bar	32 bar	28 bar	24 bar	21 bar	18 bar
Material	PN	Temperature								
		-60℃ till <+20℃*	20℃	100℃	150℃	200℃	250℃	300℃	350℃	400℃
1.4408	40	20 bar	40 bar	32 bar	29 bar	26 bar	24 bar	22 bar	21 bar	20 bar
1.4571	100	50 bar	100 bar	88 bar	84 bar	79 bar	74 bar	69 bar	67 bar	64 bar

*Studs and hexagon nuts out of A4-70

Fig. 700 with a diaphargm actuator

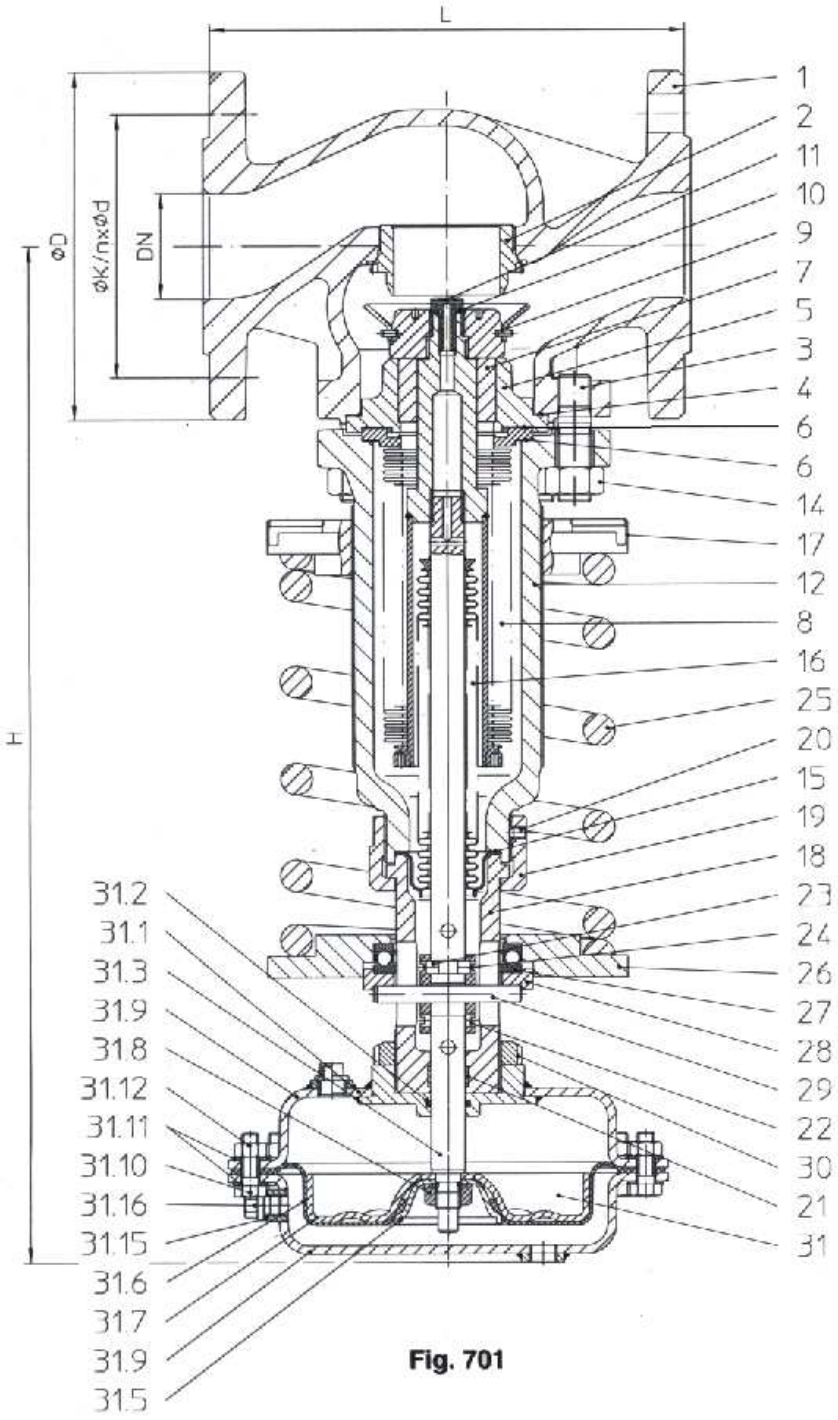
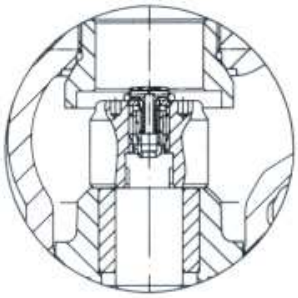
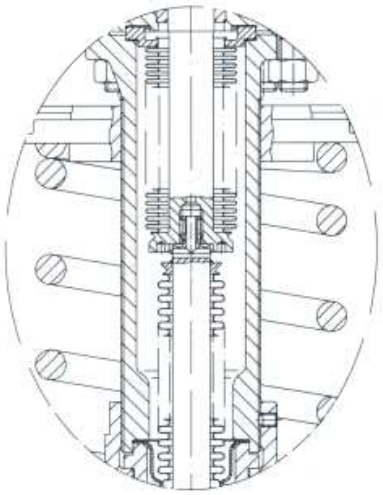


Fig. 701



Disc DN 15 - 32



Bellow DN 15 - 40

DN		15	20	25	32	40	50	65	80	100
H	DMA 40	435	435	440	440	480	480	485	530	550
	DMA 80	435	435	440	440	480	480	485	530	550
	DMA 160	440	440	440	440	480	480	490	530	550
	DMA 250	455	455	460	460	500	500	505	545	585
	DMA 400	495	495	500	200	540	540	545	585	610
L		130	150	160	180	200	230	290	310	350
Weights (kg)	DMA 40	17	18	19	21	26	32	39	61	79
	DMA 80	18	19	20	22	27	33	40	62	80
	DMA 160	19	20	21	23	28	34	41	63	81
	DMA 250	21	22	23	25	30	36	43	65	83
	DMA 400	26	27	28	30	35	41	48	70	85

Technical data

DN	15	20	25	32	40	50	65	80	100
kvs-value (m³/h)	3,2	5	8	12,5	20	32	50	80	125
Seat-ø (mm)	18	22	25	32	40	50	65	80	100
max. allowed differential pressure (bar)	40		25				20		

Pressure-temperature-classification								
Figure	Material	PN	Temperature					
			-10℃	120℃	200℃	250℃	300℃	350℃
12.701	GG-25	16	16 bar	16 bar	13 bar	11 bar	10 bar	-
22.701	GGG-40,3	16	16 bar	16 bar	13 bar	13 bar	13 bar	10 bar
23.701	GGG-40,3	25	25 bar	25 bar	20 bar	18 bar	16 bar	15 bar
34.701	1,0619+N	25	25 bar	25 bar	22 bar	20 bar	17 bar	16 bar
35.701	1,0619+N	40	40 bar	40 bar	35 bar	32 bar	28 bar	24 bar

ARI-Valves of GG-25 are not allowed in systems acc. To TRD 108 and TRD 110.

A production allowance acc. To TRB 801 No. 45 exists.(acc. To TRB 801 No. 45 GG-25 is not allowed.)
CE-marking for application acc. To Pressure Equipment Directive (identification obligation from ≥DN 32)

Downstream-pressure ranges (bar-g)	0,2 - 0,6	0,5 - 1,2	0,8 - 2,5	2 - 5	4,5 - 10	8 - 16
Actuator DMA (cm²)	400	250	160	80	40	
Actuator PN-max. (bar-g)	1,6	2,5	6	10	25	
Spring end-No.	04	04	07	07	07	10

Standard-flange dimensions

DN		15	20	25	32	40	50	65	80	100
PN 16	øD (mm)	95	105	115	140	150	165	185	200	220
	øK (mm)	65	75	85	100	110	125	145	160	180
	nxød1 (mm)	4x14	4x14	4x14	4x18	4x18	4x18	4x18	8x18	8x18
PN 25	øD (mm)	95	105	115	140	150	165	185	200	235
	øK (mm)	65	75	85	100	110	125	145	160	190
	nxød1 (mm)	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22
PN 40	øD (mm)	95	105	115	140	150	165	185	200	235
	øK (mm)	65	75	85	100	110	125	145	160	190
	nxød1 (mm)	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22

Please indicate when ordering:
1. Figure-No.
2. Nominal diameter (DN)
3. Nominal pressure (PN)
4. Body material
5. Disc execution
6. Kvs-value
7. Pressure range
8. Actuator size
9. Special design

Dimension in mm
Weigths in kg
1 bar ^= 10^5 Pa ^= 0.1 Mpa
Kvs in m³/h
1 Kvs ^= 0.85 Cv

Example:
Figure 35.701; nominal diameter DN 100; nominal pressure PN 40; body material 1.0619+N; metal seal; Kvs 125; 0.8-2.5 bar;
ARI-DMA 160 with NBR-diaphargm; water seal pot size. 1

Thermodynamic steam trap

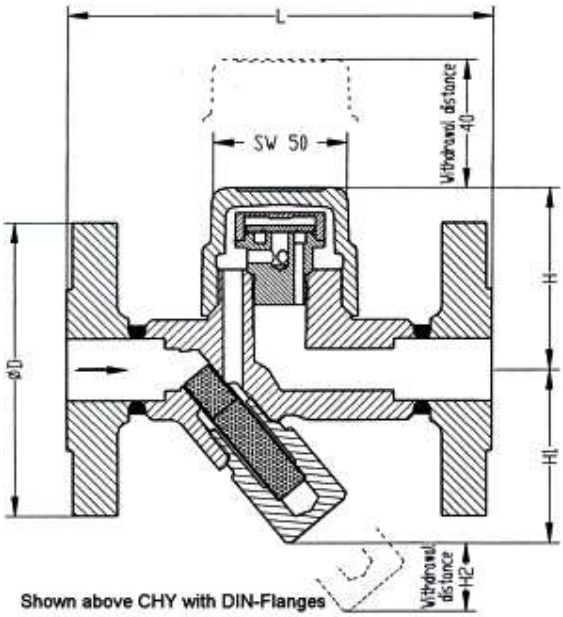
Thermodynamic steam trap with interchangeable control unit and an independent of outer influences automatic mode of operation, suitable for the drainage of any type of steam installation.

PN40

Types
AHY, BHY, CHY

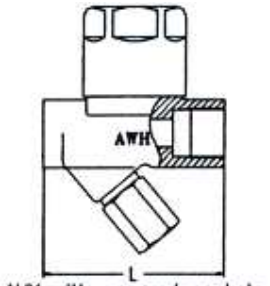
- LC variant special for relatively small condensate loads
- Intermittent mode of operation
- Screw cap offers protection against steam loss by outer influences (low outside temperature, wind, rain, etc.)
- Robust, water hammer proof mechanical design
- Operation at the same time as non return valve
- Outside strainer (Y)
- Optimised designed for quick installation
- Service advantage by gasketless face to face joint between body and cap
- Installation in every position. Optimal filter effect in horizontal position
- Additional blow off valve at strainer plug optional available

Materials	DIN	according to ASTM
Body	C22.8	A 105
	(1.0460)	
Screw cap	C22.8	A 105
	(1.0460)	
Body	15Mo3	A 182 F1
	(1.5415)	
Screw cap	15Mo3	A 182 F1
	(1.5415)	
Other interior parts	Stainless Steel	

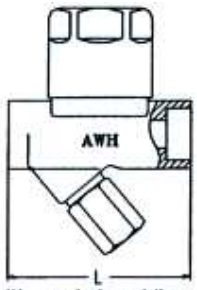


Shown above CHY with DIN-Flanges

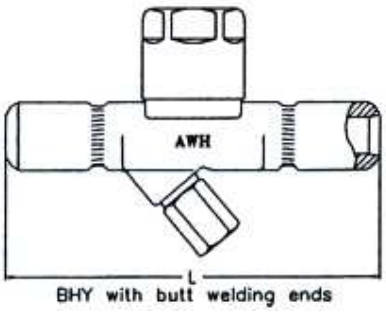
Application limits (DIN 3548 / 2401)			
PN40 C22.8			
oper. Pressure PB	32	22	14.5
[bar(exc.pr.)]			
oper. Temperature TB (℃)	250	385	450
PN40 15Mo3			
PB [bar(exc.pr.)]	35	32	28
TB (℃)	300	335	450
differential pressure	32		
ΔPMX (bar):	admission pressure/		
permissible pressure ratio	back pressure ≤ 80%		



AHY with screwed sockets



BHY with socket welding ends



BHY with butt welding ends

Types of connection
Flanges: DIN PN40
ANSI B16.5 150 and 300 psi
Screwed sockets: R and NPT thread
Socket welding ends
Butt welding Ends
Other types of connection by indivudual order.

Dimensions and weights		Types of connection								
		DIN Flanges			Screwed sockets / Socket welding ends			Butt welding ends		
DN	mm	15	20	25	15	20	25	15	20	25
	inch	1/2	3/4	1						
L		150	150	160	95	95	95	250	250	250
H		65	65	65	65	65	65	65	65	65
H1		62	62	62	62	62	62	62	62	62
H2		24	24	24	24	24	24	24	24	24
D		95	105	115						
Weight	kg	2.7	3.3	3.7	1.4	1.3	1.8	1.8	1.9	2.0

Flow diagramm

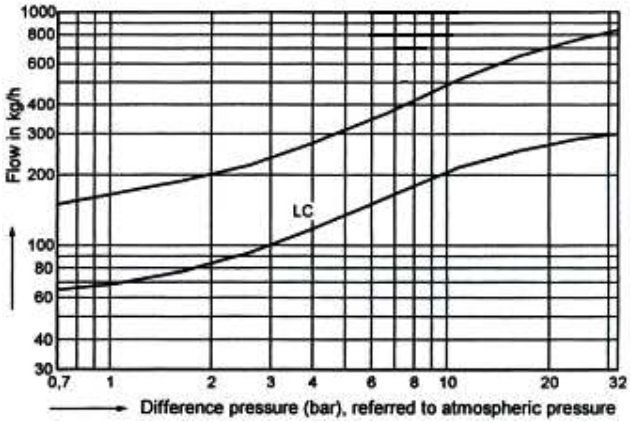
The diagramm shows the maximum throughput of hot condensate for the standard controller and the LC variant for small condensate loads.
The performance is approx. 50% higher in the case of cold condensate.

Order specification
- Steam pressure
- Back pressure
- Quantity of condensate (kg/h0
- Nominal diameter / nominal pressure
- Type of connection
- Material
- Place of use or type of steam consumption

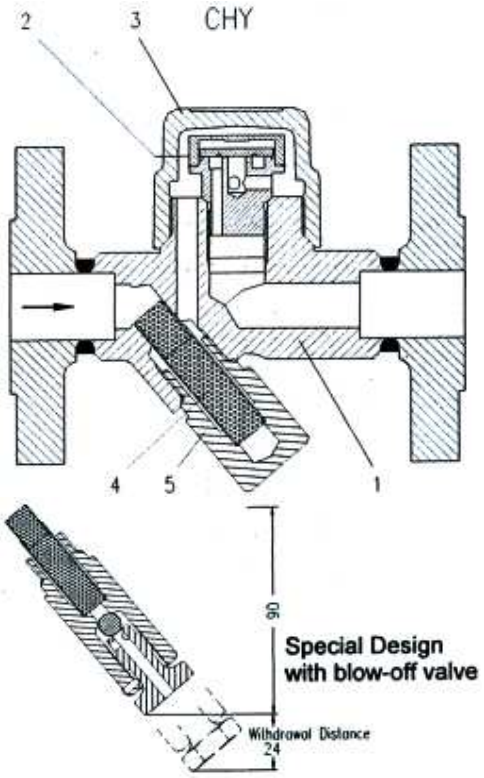
Example for order
For the removal of condensate from steam distribution system:
P1 = 4 bar(exc.pr.), P2 = 0.5 bar (exc.pr.),
Max. throughput 100 kg/h,
LC variant for small condensate loads,
Outside strainer (Y),
Flanged connection,
PN 40
DN 15

- Thermodynamic steam trap
  Type: CHY PN40 DN 15 LC
  C22.8, L = 150mm

Flow diagramm



Part list		
Part No.	Name	Spare part
1	Body	
2	Control unit	X
3	Screw cap	
4	Strainer sleeve	X
5	Strainer plug	X



Bimetalic steam trap

Thermal steam trap with corrosion resistant and water hammer intensitiv bimetalic control element, integrated non return valve and outside strainer (Y).
Automatic ventilation.
Standard design: closed screw cap.
Special design: screw cap with plug.

PN40
Types
AUY, BUY, CUY

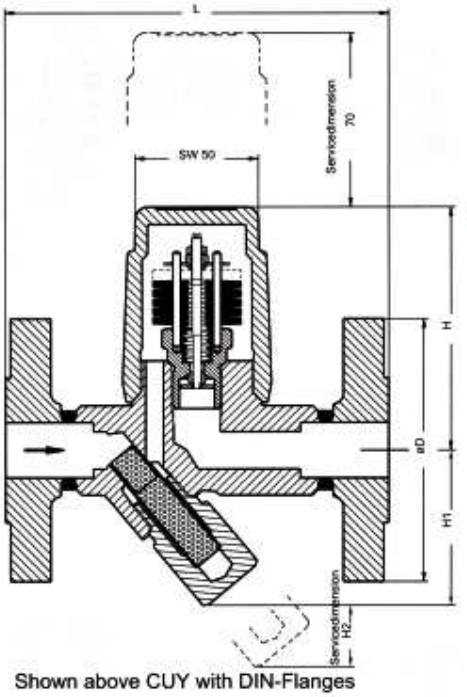
Controller for several application fields eligible:
- Controller R13: operating pressure ≤ 13 bar.
- Controller R22: operating pressure ≤ 22 bar.
- Controller R32: operating pressure ≤ 32 bar.

Application limits			
PN40 C22.8			
Oper. Pressure PB[bar(exc.pr.)]	32	22	21
Oper. Temperature TB (℃)	250	385	400
Pn40 15Mo3			
PB [bar(exc.pr.)]	35	32	28
TB (℃)	300	335	450
Differential pressure			
Δ PMX (bar):	32	22	13
Controller:	R32	R22	R13

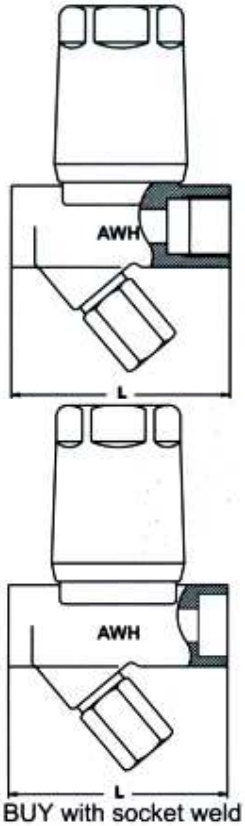
Optimized armature design for quick installation.
Service advantage by gasketless face to face joint between body and cap.
Installation in every position. Optimal filter effect in horizontal position.
Additional blow off valve at strainer plug optional available.

Materials	DIN	according to ASTM
Body	C22.8 (1.0460)	A 105
Screw cap	C22.8 (1.0460)	A 105
Body	15Mo3 (1.5415)	A 182 F1
Screw cap	15Mo3 (1.5415)	A 182 F2
Temperature sensor	Stainless bimetal plates TB 102/85	
Other interior parts	Stainless Steel	

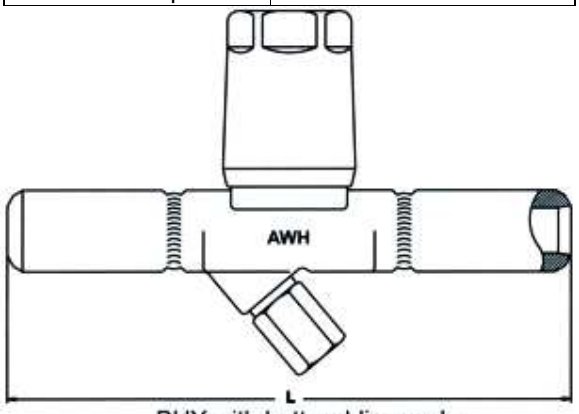
Types of connection
Flanges:DIN PN40
ANSI 150 and 300 lbf/in²
Screwed sockets R and NPT threads
Socket weld
Butt welding ends



Shown above CUY with DIN-Flanges



BUY with socket weld



BUY with butt welding ends

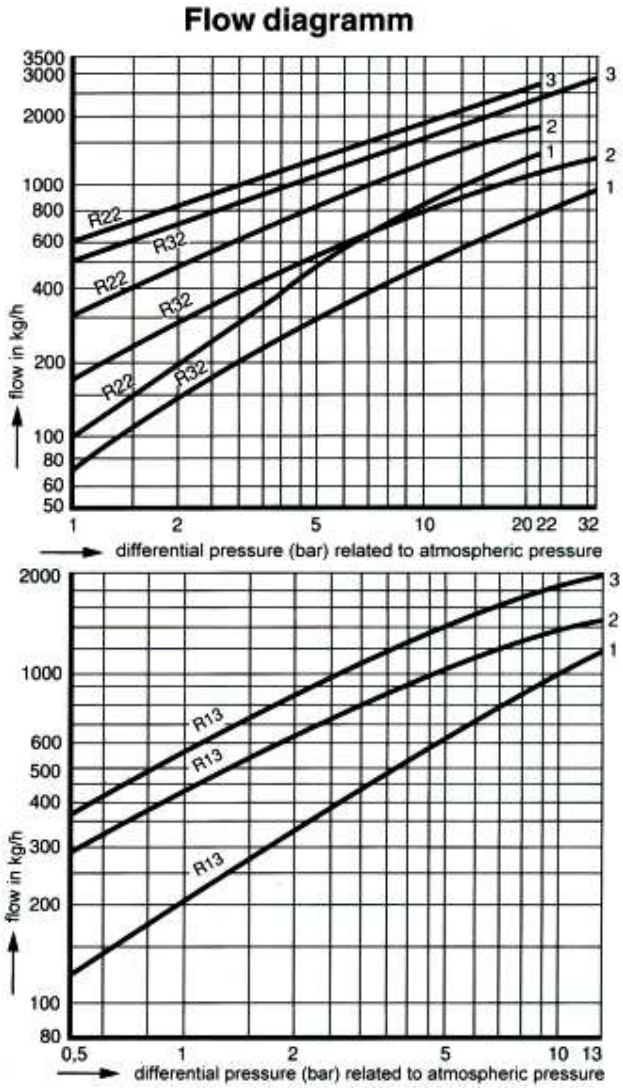
Dimensions And weights		Types of connection								
		DIN Flanges			Screwed sockets Socket weld ends			Butt welding ends		
nominal	mm	15	20	25	15	20	25	15	20	25
diameter	inch	1/2	3/4	1						
structural	L	150	150	160	95	95	95	250	250	250
Dimensions	H	98	98	98	98	98	98	98	98	98
	H1	62	62	62	62	62	62	62	62	62
	H2	24	24	24	24	24	13	24	24	24
	D	95	105	115						
weight	kg	3.2	3.7	4.2	1.7	1.6	2.1	2.2	2.3	2.4

Flow diagramm

The diagramm shows the maximum throughput for controller R22, 32 and R13 with factory adjusted standard control range.

Curve 1: Maximum throughput of hot condensate at about 10 Kelvin below boiling temperature.
Curve 2: Maximum throughput of condensate at about 30 Kelvin below boiling temperature(by condensate tailback).
Curve 3 : Maximum throughput of cold condensate (start up).

The aperture range of the controller depends on the temperature of the incoming condensate. The discharge capacity of the controller increases at colder temperature of condensate.

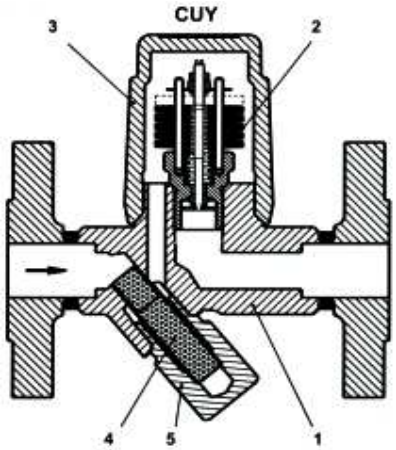


Order specificastion:

- Steam pressure
- Back pressure
- Quantity of condensation (kg/h)
- Nominal diameter / nominal pressure
- Type of connection
- Type of controller
- Material
- Place of use or type of steam consumption

Example for order
For the removal of condensate of a pipeline draining:
P1 = 15 bar(exc.pr.), P2 = 1 bar(exc.pr.),
Max. throughput 250 kg/h,
Outside strainer,
Flanged connection
PN40
DN15

➢ Bimetalic steam trap
Type: CUY PN40 DN 15 R22
C22.8, L = 150mm



Part list		
Part No	Designation	Spare part
1	body	
2	controller	X
3	screw cap	
4	strainer sleeve	X
5	strainer plug	X

Thermostatic steam trap

Thermostatic steam trap with corrosion proof and water hammer proof capsule, integrated non return valve and outside strainer (Y).

Types
ATY, BTY, CTY

Available types of capsule:

Capsule No. 2 for the removal of condensate a few degrees below boiling temperature (standard version).
Capsule No. 3 for condensate subcooling by about 30K.
Capsule No. 4 for extreme condensate subcooling by about 40K, especially suitable for tracing systems with medium and low pressure.
Capsule No. 1 for the removal of condensate approximately at boiling temperature (max. admission pressure 5 bar (R5)).
Optimal armature design for quick installation.
Service advantage by gasketless face to face joint.
Installation in every position. Optimal filter effect in horizontal position. Additional blow off valve at strainer plug aptional available.

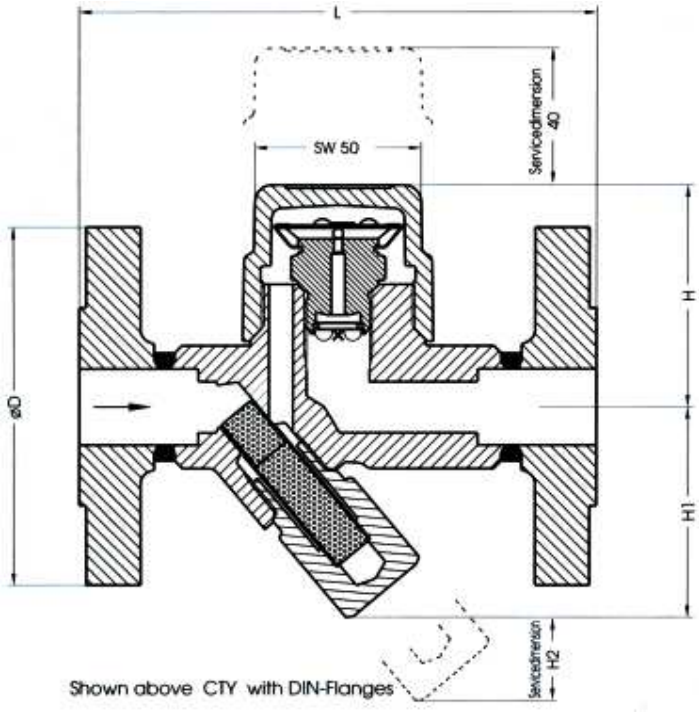
Application Limits PN 40 C22.8			
operating pressure PB [bar(exc.pr.)]	32	22	15
operat. Temperature TB (℃)	350	400	450
differential pressure ΔPMX (bar):	32	22	5
controller:	R32	R22	R5

Materials	DIN	according to ASTM
body	C 22.8 -1.460	A 105 -10.432
screw cap	C 22.8 -1.460	A 105 -10.432
capsule	diapragm: capsule:	Hastelloy stainless steel
other interior parts		stainless steel

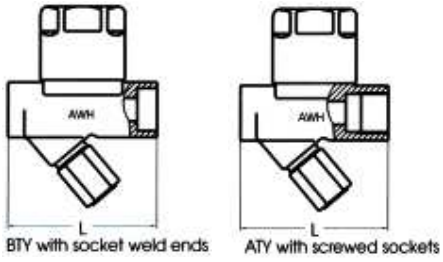
Types of connection
- Flanges: DIN PN 40, ANSI 150 and 300 lb/in²
- Screwed sockets: R and NPT threads
- Sockets weld ends
- Butt welding ends

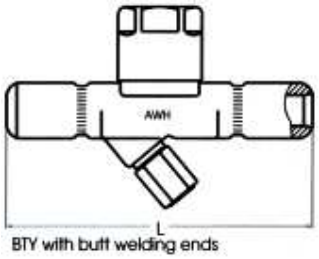
Other face to face dimensions by individual order

Dimensions and weights		Types of connection								
		DIN Flanges			screwed sockets socket weld ends			butt welding ends		
nominal diameter	mm inch	15 1/2	20 3/4	25 1	15	20	25	15	20	25
structural	L	150	150	160	95	95	95	250	250	250
dimensnions	H	65	65	65	65	65	65	65	65	65
	H1	62	62	62	62	62	62	62	62	62
	H2	24	24	24	24	24	13	24	24	24
	D	95	105	115						
weight	kg	2.7	3.3	3.7	1.4	1.3	1.8	1.8	1.9	2



Shown above CTY with DIN-Flanges





Flow diagramm

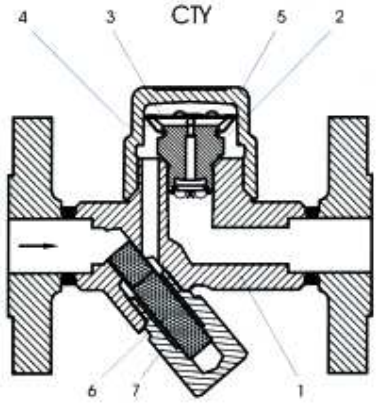
The diagramm shows the maximum throughput for controller R5, R22, R32.

Curve 1: Maximum throughput of hot condensate for capsule NO. 2,3,4,and 1 (1 only R5)
Curve 2: Maximum flow of cold water (20℃).

Order specification
- Steam pressure
- Back perssure
- Quantity of condensation (kg/h)
- Nominal diameter / nominal pressure
- Type of connection
- Type of capsule
- Material
- Place of use or type of steam consumption

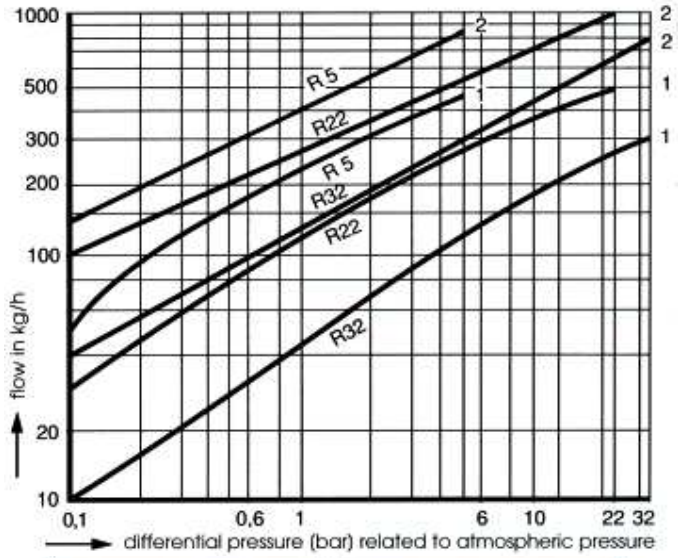
Example for order
For the removal of condensate of tracing, P1 = 4.5 bar (exc.pr.), P2 = 1.0 bar (exc.pr), maximum flow 35 kg/h, condensatesubcooling 40K, outside strainer, flange connection PN40, DN15,

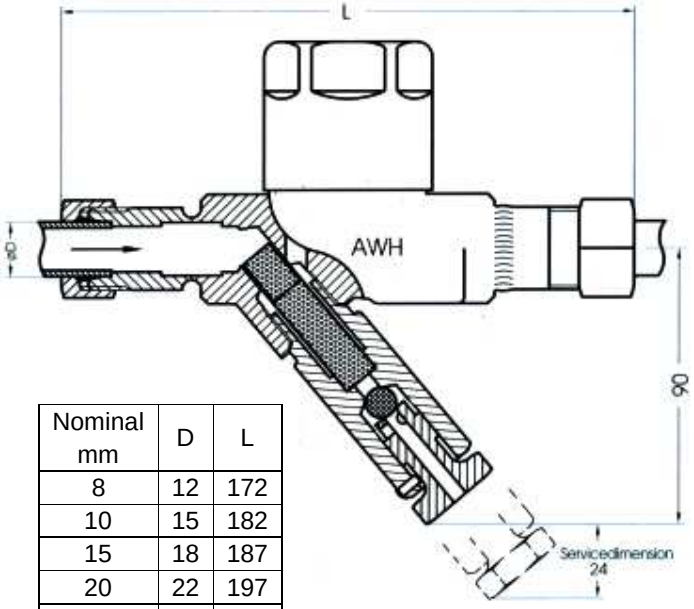
— Thermostatic steam trap
Type CTY PN40 DN15 capsule No. 4
C22.8, L = 150mm



Part list		
Part No.	Designation	Spare part
1	body	
2	seat	X
3	capsule	X
4	spring actuated clip	X
5	screw cap	
6	strainer sleeve	X
7	strainer plug	X

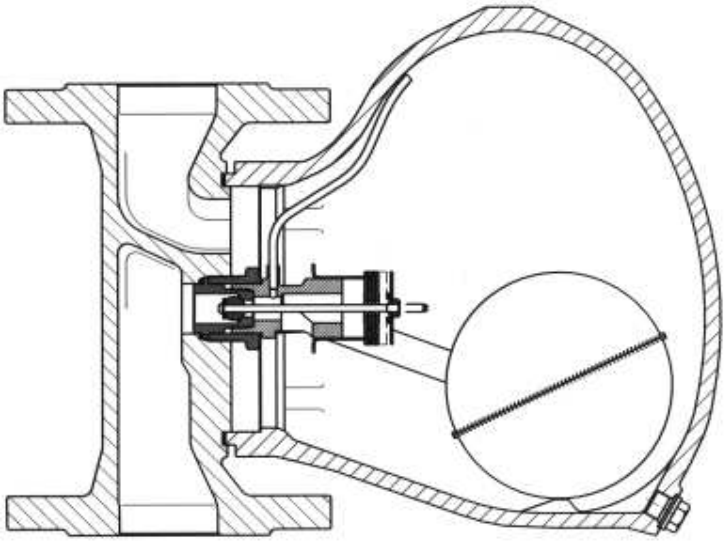
Flow diagramm



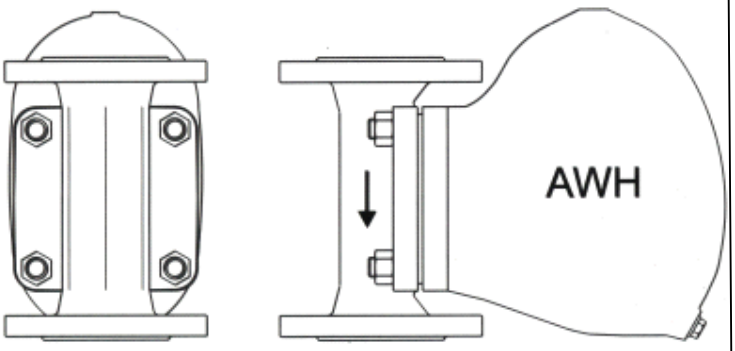


Nominal mm	D	L
8	12	172
10	15	182
15	18	187
20	22	197
25	28	212

Ball Float
Steam Trap



CNU - flanged connection



CNU - vertical installation

Materials			
Part	DIN	DIN	According to ASTM
Body	GGG-40.3	GS-C25/C22.8	A216 WCB/A 105
	0.7043	1.0619/1.0460	
Cover	GGG-40.3	GS-C25	A216 WCB
	0.7043	1.0619	
Bolts	21CrMoV5-7	21CrMoV5-7	21CrMoV5-7
	1.7709	1.7709	1.7709
Nuts	21CrMoV5-7	21CrMoV5-7	21CrMoV5-7
	1.7709	1.7709	1.7709
Gasket body/cover	Graphite/CrNi		
Teamperature sensor	Corrosion resistant Bimetal		
automatic air venting	TB 102/85		
Other interior parts	Stainless Steel		

Ball float steam trap with float and thermal control for drawing condensate from steam systems.

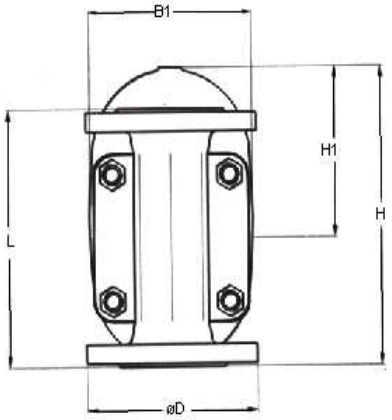
The thermal control element serves only for automatic strat-up air venting. The warming phase is followed by exclusive float control.

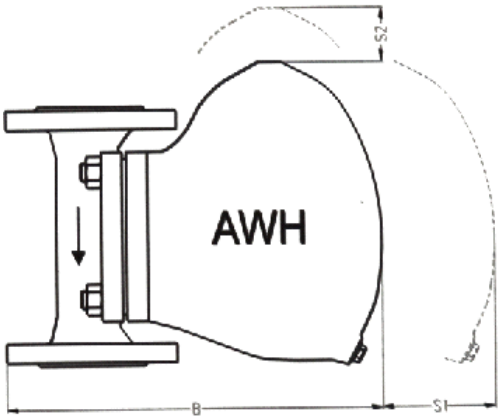
- Immediate condensate discharge at boiling temperature
- Body with flanged cover
- Easely accessible control unit (without removing trap from the line)
- Installation for horizontal connectionds with flow from right to left, from left to right or for vertical connections with flow downwards (standard)
- Integral large-surface strainer screen
- Integral non-return protection
- Additional change of the installation possible by repositioning body and control unit

Application limits PN 40		
GGG 40.3		
Operating pressure PB [bar(g)]	32	22
Operating temperature TB (℃)	250	350
GS-C25/C22.8		
Operating pressure PB [bar(g)]	32	22
Operating temperature TB (℃)	250	400
max. permissible adm. pressure P1[bar(g)]	for controller	
2	R2, R2-S	
4	R4, R4-S	
8	R8, R8-S	
13	R13, R13-S	
22	R22	
32	R32	

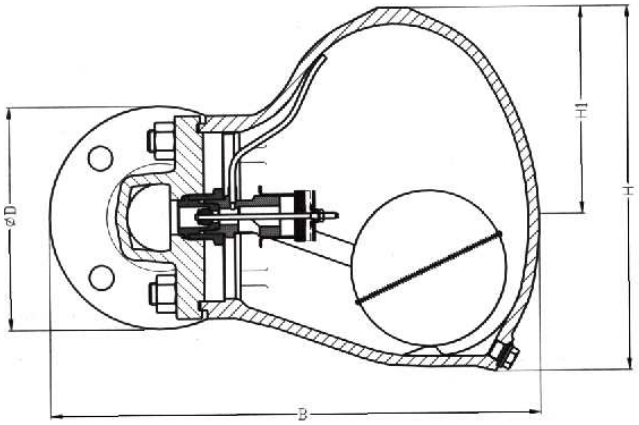
Types of connection**
Flanges: -DIN PN 40
-ANSI B16.5 Class 300
Screwed sockets: R- and NPT-thread
Socket weld ends
Butt welding ends
**Other types of connection on request

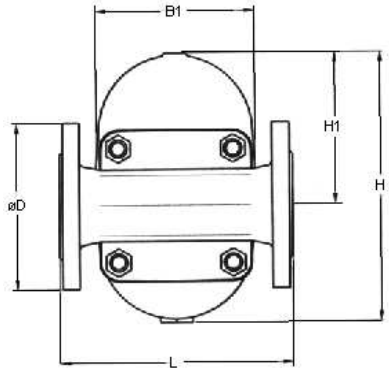
Installation, Dimensions and Weights

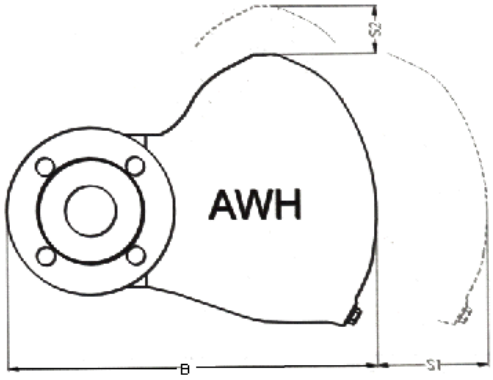




CNU - flanged connection
- vertical installation - standard







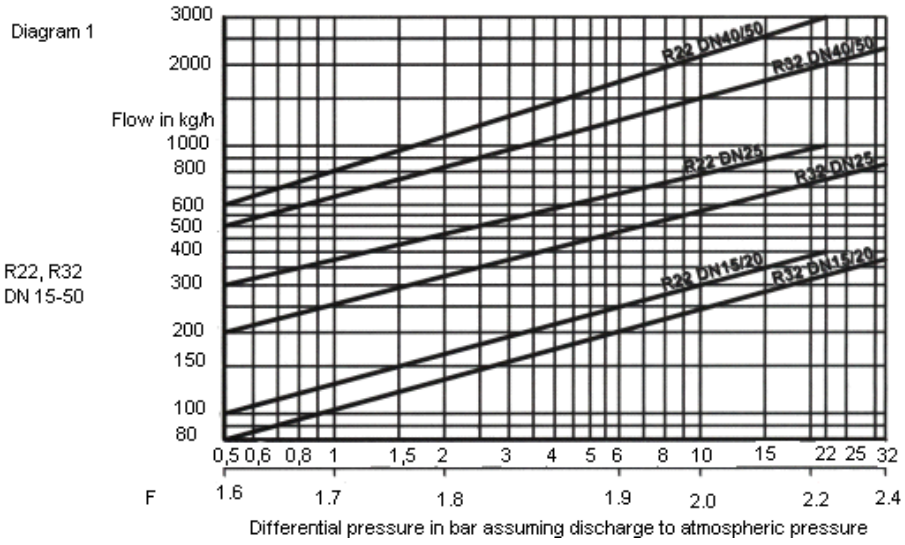
CNU – horizontal installation
- on request with flow from left to right or from right to left

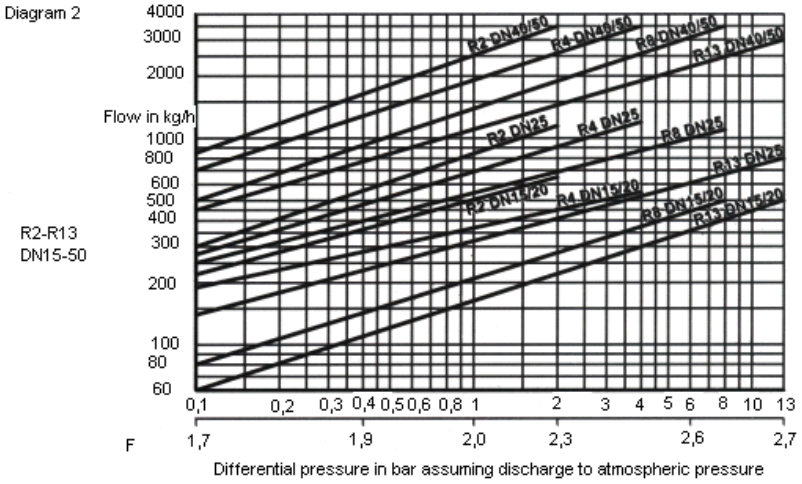
Dimensions and weights		Types of connection														
		DIN-Flanges					Screwed sockets / Socket weld ends					Butt welding ends				
Nominal pipe	mm	15	20	25	40	50	15	20	25	40	50	15	20	25	40	50
size	inch	½	¾	1	1½	2	½	¾	1	1½	2	½	¾	1	1½	2
Dimensions	L	150	150	160	230	230	150	150	160	230	230	160	160	160	250	250
in mm	H	162	162	187	270	270	162	162	187	270	270	162	162	187	270	270
	H1	85	85	102	151	151	85	85	102	151	151	85	85	102	151	151
	B	243	248	305	335	363	190	190	210	325	325	190	190	210	325	325
	B1	95	95	118	157	157	95	95	118	157	157	95	95	118	157	157
	D	95	105	115	150	165										
Withdrawal	S1	180	180	200	300	300	180	180	200	300	300	180	180	200	300	300
Distance in mm	S2	150	150	180	200	200	150	150	180	200	200	150	150	180	200	200

Weight(kg)	7,9	8,1	11	25	25	7,3	7,3	8,5	20,0	20,5	6,9	7,5	9,0	21,0	22,0

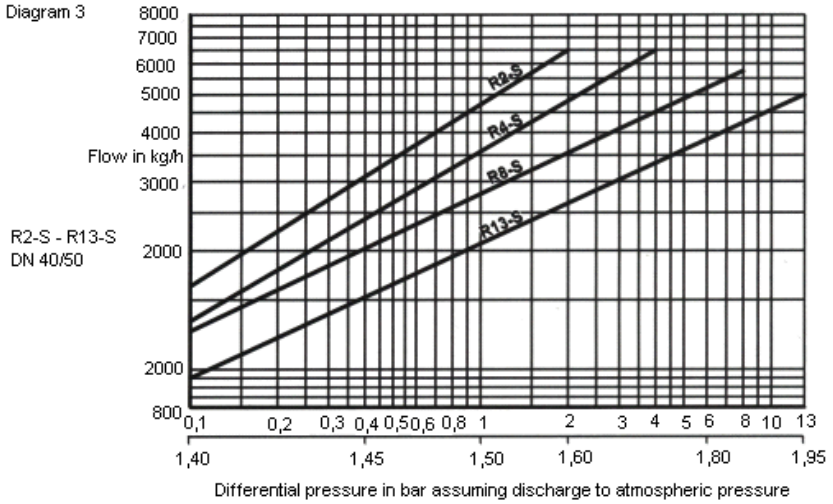
Capacity charts

The charts show the maximum flow of boiling hot condensate for the range of controller and nominal pipe sizes available. The maximum flow of cold water is the capacity of boiling hot condensate multiplied by factor F. Controller for differential pressure 13 bao or 32 bar are standard equipment for the steam traps.





For higher condensate loads at lower differential pressure controller for 2, 4, 8 or 22 bar are available.



The diagram shows the maximum flow of hot boiling condensate for S-controller

Integral Non-Return-Protection

Seat and valve spindle serve at every ball float steam trap as integral non-return protection.

In case of parallelly installed heat exchangers or heater batteries the non-return protection prevents a shut down consumer from flooding with condensate and reserve heating up.

The additional non-return valve behind the trap is dropped.

Part list		
No.	Part	Spare part
1	Body	
2	Seat gasket	X
3	Control unit with	X
	integral strainer	
4	Gasket body/cover	X
5	Cover	
6	Gasket for drain	X
	plug	
7	Drain plug	

Order specification

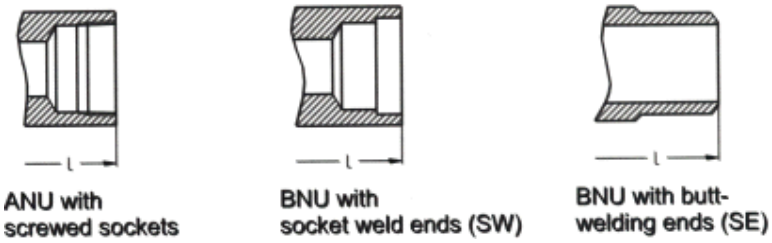
- Steam pressure
- Back pressure
- Quantity of condensate (kg/h)
- Nominal pipe size/nominal pressure
- Type of connection
- Material
- Place of use or type of steam consumption

Example for order
For condensate discharge from steam system,
P1=20bar(g), P2=3bar(g),
Max. flow 2000 kg/h,
Flanged connection PN40 DN50
Vertical installation

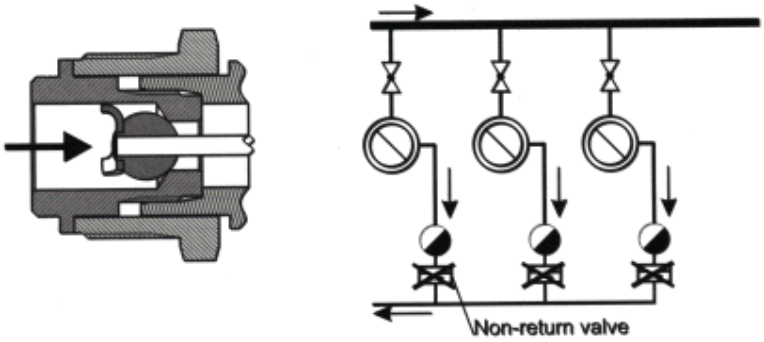
⇒ Ball float steam trap
Type: CNU PN 40 DN 50 R22
GS-C25/C22.8, L=230mm

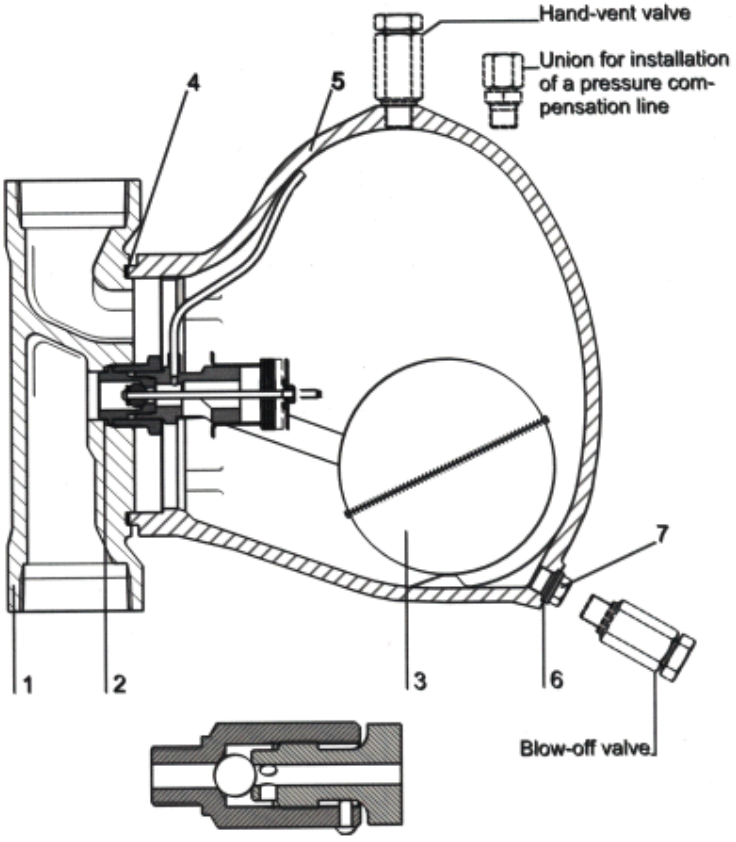
Deviation of the standard installation vertical have to be indicated at the order.

Further types of connection:



Integral Non-Return Protection





Options: -Upper plug
-Handvent valve or blow-off valve
-Union for installation of a pressure compensation line

Automatic Condensate drain valve

ARMATUREN

Condensate drain valve for rapid condensate discharge during the start up of steam plants and for draining the remaining condensate at shut down.

- Automatic discharge of the existing cold condensate during the start up of the steam plant.
- Compression spring in the controller keeps the valve open if the plant is depressurised.
- Installation in every position.
- Standard adjusted closing pressure 1,5 bar.
- Bimetalic elements provide a constant closing pressure of the valve.

PN16, PN40

Types
AEA, BEA, CEA

Types of connection:

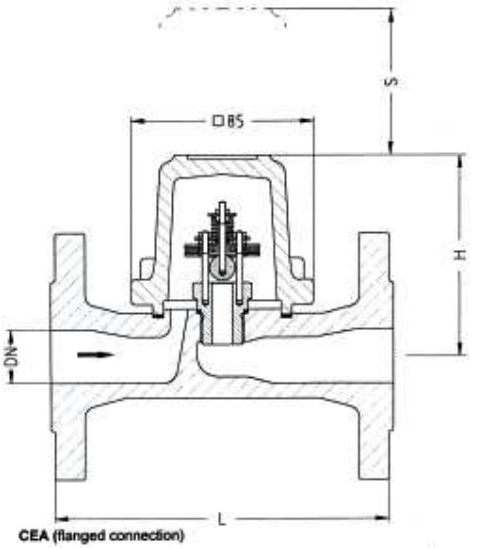
Flanges : DIN PN16 or PN40
Union with butt welding ends : only PN16, GG-25
Screwed sockets : only for PN40 R or NPT thread
Welding ends : only PN40 as socket weld or butt welding ends

Application limits (DIN 3548 / 2401)

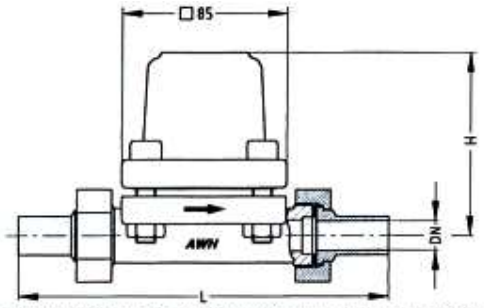
PN	PN16	PN 40		
Material	GG-25	C22.8		
Operating pressure PB [bar (g)]	13	32	22	14.5
Operating temperature TB [℃]	300	250	385	450
Closing pressure ΔP [bar]	1.5			

Materials

Body and cap	GG-25	C22.8	
	0.6025	10.460	
Temperature sensor	corrosion resistant bimetal		
	TB 102/85		
Bolts	8.8	40CrMoV4-7	
	-	17.711	
Nuts	8	21CrMoV5-7	
	-	17.709	
Gaskets	asbestos free		
Welding Ends	C15	-	-
	10.401		
Other interior parts	Stainless Steel		

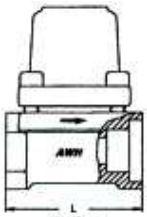


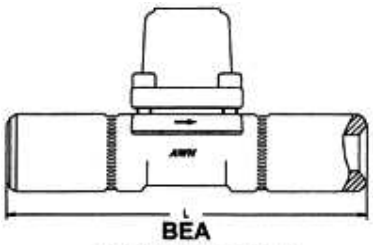
CEA (flanged connection)



BEA (union with butt welding ends) only PN16


AEA (screwed sockets)

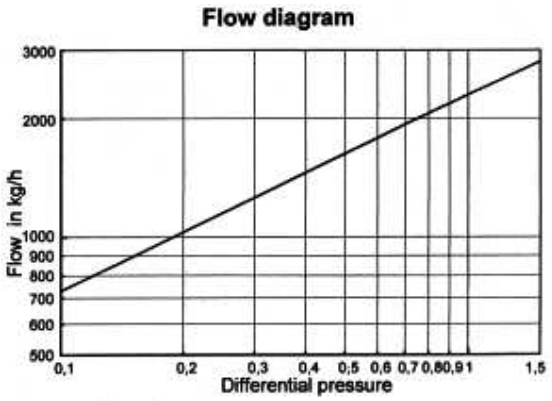

BEA (socket weld)


BEA (butt welding ends)

Dimensions (mm) and Weights (kg)															
Type of connection		Flanges					Union wih butt welding ends / Butt welding ends					Socket weld / Screwed sockets			
Nominal pressure PN		16		40			16		40			40			
Nominal diameter DN		25	50	15	20	25	15	20	15	20	25	15 (1/2")	20 (3/4")	25 (1")	
Structural dimension	L	160	230	150	150	160	190	190	-			95			
		180	236				-	-	250			95			
	H	100	124	100			100		100			100			
	S	70	80	70			70		70			70			
Weight	G	4.5	7.5	3.8	4.6	5.4	2.6	2.3	2.2	2.3	2.4	2.9	2.8	2.6	

Standard face to face dimension: L = 160mm or 230mm acc. DIN 3202
On request: L = 180mm or 236mm

FLOW DIAGRAM



The chart shows the maximum capacity of cold condensate.

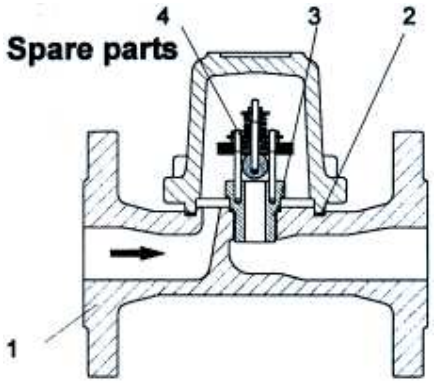
Order specification

- Place of use
- Closing pressure
- Type of connection
- Nominal diameter / nominal pressure
- Material

Example for order

For the start up dehydration of a steam line Δp = 0.3 bar,
Max. throughput 700kg/h,
Flanged connection, DN25, PN16,
Body material GG-25

- Condensate drain valve
  Type: CEA PN16
  DN25
  Body material GG-25
  L = 160mm



Part list		
Positions-No.	Designation	Spare part
1	Body	-
2	Gasket body / cap	X
3	Gasket body / seat	X
4	Control unit	X