

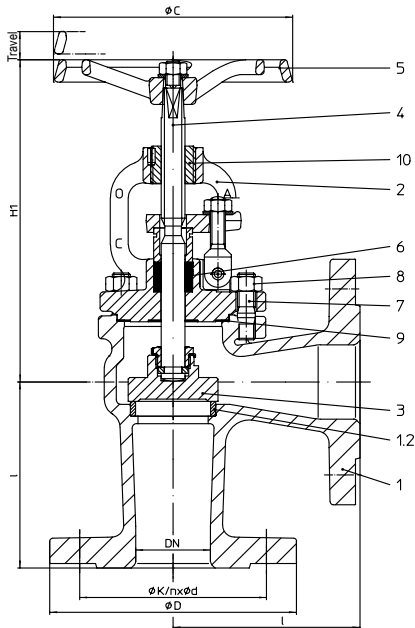
Stop valve - angle pattern with flanges and gland seal (Cast steel)


Figure	Nominal pressure	Material	Nominal diameter
34.007	PN25	1.0619+N	DN15-500
34.307	PN25	1.0619+N	DN15-500
35.007	PN40	1.0619+N	DN15-500
35.307	PN40	1.0619+N	DN15-500

Fig. 307: Trim made of RG/MS

CuZn35Ni3Mn2AlPb, CW710R code number 02
 CuSn10-Cu, CC480K code number 03
 (max. operating temperature: 180°C, code number acc. to DIN 86251)

Test: • DN15-300 optional:
 EN ISO 15848-1 / TA - Luft
 TÜV-Test-No. TA 08 2016 C04 (refer to page 16)

Considered standards: • EN 13709 (1.0619+N)

**At high differential pressures a balancing plug is necessary!
 (not possible at Fig. 307, observe max. differential pressure!)
 (refer to page 13)**

Parts				Fig. 34./35.007	Fig. 34./35.307
Pos.	Sp.p.	Description			
1		Body	GP240GH+N, 1.0619+N		
1.2		Seat ring	DN ≤50: X20Cr13+QT, 1.4021+QT DN >50: G19 9 Nb Si, 1.4551	CuSn10-Cu, CC480K code number 03	
2		Bonnet	GP240GH+N, 1.0619+N		
3	x	Plug	DN ≤200: X20Cr13+QT, 1.4021+QT DN >200: P265 GH, 1.0425	CuZn35Ni3Mn2AlPb, CW710R code number 02 CuSn10-Cu, CC480K code number 03	
4	x	Stem	X20Cr13+QT, 1.4021+QT (burnished) CuSn8, CW453K code number 03 (burnished)		
5		Handwheel	EN-JL1040, EN-GJL-250 (FE 13 Epoxid-coating)		
6	x	Packing ring	Pure graphite		
7		Stud	25CrMo4, 1.7218		
8		Hexagon nut	C35E, 1.1181		
9	x	Gasket	Pure graphite (CrNi laminated with graphite)		
10		Insert nuts	11SMn30+C, 1.0715+C		
L Spare parts					

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
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Face-to-face dimension CTF series 8 according to DIN EN 558																		Standard-flange dimensions refer to page 15									
l	(mm)	90	95	100	105	115	125	145	155	175	200	225	275	325	375	425	475	525 *									
* acc. to manufacturers standard																											

Dimensions																		
H1	(mm)	185	185	200	200	215	215	245	280	320	360	415	495	575	655	735	740	840
ØC	(mm)	120	120	140	140	160	160	180	200	225	250	400	520	520	520	640	640	640
Travel	(mm)	9	9	13	13	21	19	28	32	36	52	56	73	80	110	116	126	181
Kvs-value	(m³/h)	5,2	9,2	15	24	37	58	96	150	235	360	510	905	1430	2040	2775	3975	5660
Zeta-value	--	3	3	2,8	2,9	3	3	3,1	2,9	2,9	3	3,1	3,1	3,1	3,1	3,1	2,6	3,1
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173																		

Weights																		
34.007 / 307	(kg)	5,2	7,2	7,4	8,4	12,4	13,6	20	25	34	53	70	138	170	290	383	690	963
35.007 / 307	(kg)	5,2	7,2	7,4	8,4	12,4	13,6	20	25	34	53	70	148	188	327	430	767	1018

Information / restriction of technical rules need to be observed!

A production permission acc. to TRB 801 No. 45 is available.

The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

Resistance and fitness must be verified, contact manufacturer for information (refer to Product overview and Resistance list).

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500		
Standard-flange dimensions																			
Flanges acc. to DIN EN 1092-1/-2 (Flange holes / -thickness tolerances acc. to DIN 2533/2544/2545)																			
PN6	ØD	(mm)	80	90	100	120	130	140	160	190	210	240	265	320	--	--	--	--	
	ØK	(mm)	55	65	75	90	100	110	130	150	170	200	225	280	--	--	--	--	
	n x Ød	(mm)	4x11	4x11	4x11	4x14	4x14	4x14	4x14	4x18	4x18	8x18	8x18	8x18	--	--	--	--	
PN16	ØD	(mm)	95	105	115	140	150	165	185	200	220	250	285	340	405	460	520	580	715
	ØK	(mm)	65	75	85	100	110	125	145	160	180	210	240	295	355	410	470	525	650
	n x Ød	(mm)	4x14	4x14	4x14	4x18	4x18	4x18	4x18 ¹⁾	8x18	8x18	8x18	8x22	12x22	12x26	12x26	16x26	16x30	20x33
PN25	ØD	(mm)	95	105	115	140	150	165	185	200	235	270	300	360	425	485	555	620	730
	ØK	(mm)	65	75	85	100	110	125	145	160	190	220	250	310	370	430	490	550	660
	n x Ød	(mm)	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x26	12x30	16x30	16x33	16x36	20x36
PN40	ØD	(mm)	95	105	115	140	150	165	185	200	235	270	300	375	450	515	580	660	755
	ØK	(mm)	65	75	85	100	110	125	145	160	190	220	250	320	385	480	510	585	670
	n x Ød	(mm)	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x30	12x33	16x33	16x36	16x39	20x42

¹⁾ also with 8 bore holes acc. to DIN EN 1092-1/-2 possible.

Pressure-temperature-ratings	Intermediate values for max. permissible operational pressures can be determined by linear interpolation of the given temperature / pressure chart.
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acc. to DIN EN 1092-2			-60°C to <-10°C ¹⁾	-10°C to 120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
EN-JL1040	16	(bar)	--	16	14,4	12,8	11,2	9,6	--	--	--
EN-JS1049	16	(bar)	on request	16	15,5	14,7	13,9	12,8	11,2	--	--
EN-JS1049	25	(bar)	on request	25	24,3	23	21,8	20	17,5	--	--

acc. to manufacturers standard			-60°C to <-10°C ¹⁾	-10°C to 120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.0619+N	25	(bar)	18,7	25	23,9	22	20	17,2	16	14,8	8,2
1.0619+N	40	(bar)	30	40	38,1	35	32	28	25,7	23,8	13,1
1.0460	25	(bar)	18,7	25	23,9	22	20	17,2	16	14,8	10
1.0460	40	(bar)	30	40	38,1	35	32	28	25,7	23,8	16

acc. to DIN EN 1092-1			-60°C to <-10°C ¹⁾	-10°C to 100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.4408	16	(bar)	16	16	14,5	13,4	12,7	11,8	11,4	10,9	--
1.4408	25	(bar)	25	25	22,7	21	19,8	18,5	17,8	17,1	--
1.4408	40	(bar)	40	40	36,3	33,7	31,8	29,7	28,5	27,4	--

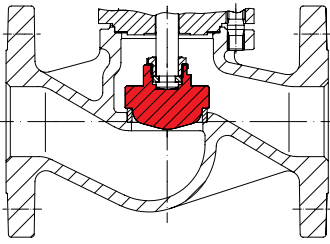
¹⁾ Studs and nuts made of A4-70 (at temperatures below -10°C)

Please indicate when ordering:

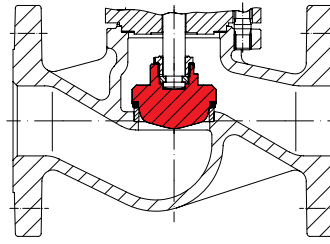
- Figure-No.
- Nominal pressure
- Nominal diameter
- Special design / accessories

Example:

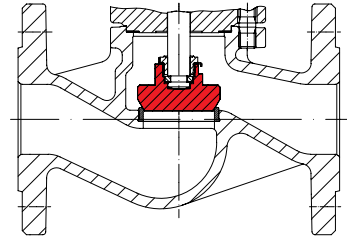
Figure 35.006; Nominal pressure PN40; Nominal diameter DN100; with regulating plug, position indicator with locking device.



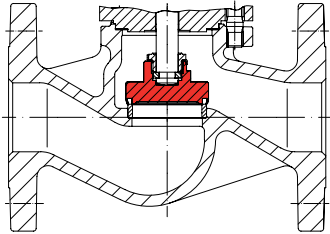
Regulating plug
(for max. permissible ΔP refer to Flow diagram)



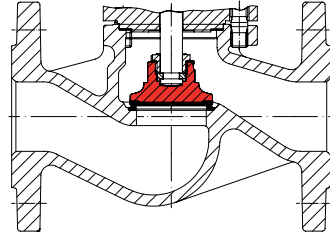
Regulating plug with soft seal
Max. operating temperature 200°C at PTFE + 25% carbon
(for max. permissible ΔP refer to Flow diagram)



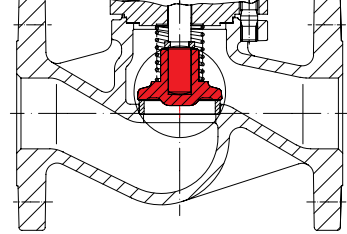
Plug with marginal seat



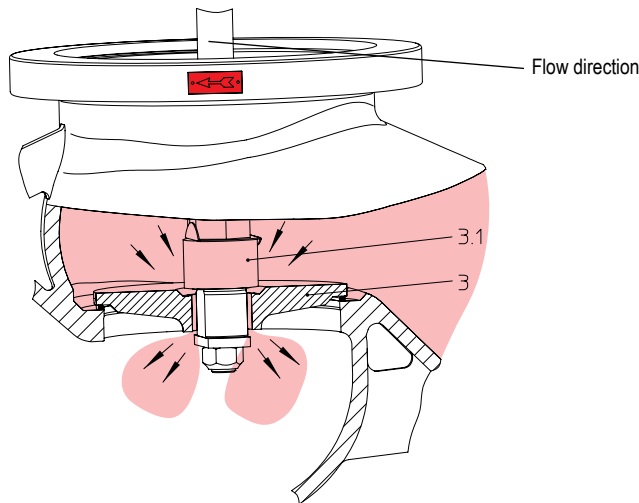
Plug with Soft seal
Max. operating temperature 200°C at PTFE + 25% carbon



Stellited plug



Screw down non-return plug with re-setting spring -
max. differential pressure, refer to table of pressure
balancing plugs,
Set pressure 0,1 bar
(Design for special applications refer to page 14)
Flow values (Kvs and Zeta) refer to data sheet „Check valves“.



Balancing plug

Valves with balancing plugs have to be installed with medium flowing over the plug (3) as indicated by flow direction arrow on valve body.

Working principles:

When the valve is closed, anticlockwise rotation of the hand wheel lifts the pilot plug (3.1) off the larger balancing plug (3).

This allows the medium to pass through the plug and equalizes the pressure of the medium under the plug (3). After the pressures have been equalized within the values stated in the table, the valve can be opened by turning the valve further with normal manual force.

Balancing plugs are fully effective only in closed systems.

The pressures of the medium on either side of the plug can not be equalized if the medium is discharged into open air.

A bypass line or some other arrangement is necessary if too much time is required for pressure equalization owing to the volume in the piping system.

ARI-stop valves with differential pressures exceeding the following pressures, have to be fitted with pressure balancing plugs

DN		125	150	200	250	300	350	400	500
Differential pressure (ΔP)	(bar)	25	21	14	9	6	4,5	3,5	1,5