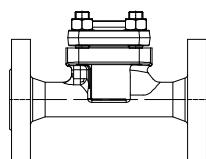


Check valve, metallic sealing

DN 10 - 100

ARI-CHECKO®-V -
Straight through with flanges

- TRB 801 Annex II No. 45



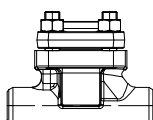
Cast steel
Forged steel
High temperature
steel

Fig. 003

Page 2 + 3

ARI-CHECKO®-V -
Straight through with butt weld ends

- TRB 801 Annex II No. 45



Cast steel
Forged steel
High temperature
steel

Fig. 030

Page 4 + 5


Fig. 030
Features:

- Solid plug made of stainless material
- Solid seat made of stainless material
- Re-setting spring made of stainless steel
- Precise plug guidance

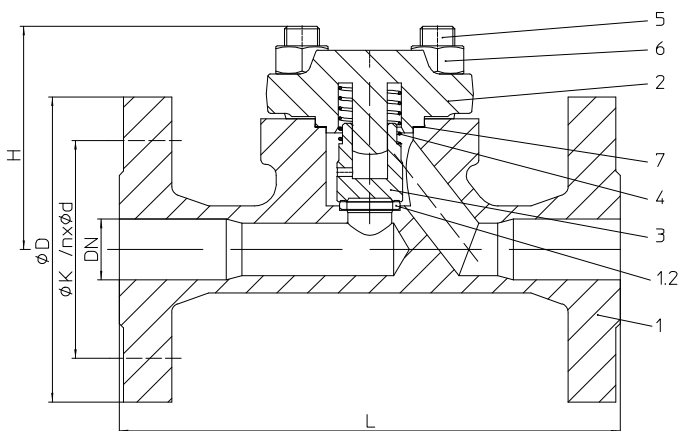
Check valve - straight through with flanges (Forged steel, High temperature steel)


Figure	Nominal pressure	Material	Nominal diameter
48.003....40	PN63-160	1.0460	DN10-40
46.003....40	PN63	1.0460	DN50
48.003....40	PN100-160	1.0460	DN50

88.003....81	PN63-160	1.7335	DN10-40
86.003....81	PN63	1.7335	DN50
88.003....81	PN100-160	1.7335	DN50

Larger nominal diameters refer to page 3.

Set pressure 0,15 bar

The operating point of the valve cannot be chosen in the unstable region!

Parts				
Pos.	Sp.p.	Description	Fig. 46./48.003....40	Fig. 86./88.003....81
1		Body	P250 GH, 1.0460	13CrMo4-5, 1.7335
1.2		Seat ring	Stellit 21	
2		Cover	P250 GH, 1.0460	13CrMo4-5, 1.7335
3	x	Plug	X20Cr13+QT, 1.4021+QT (hardened)	13CrMo4-5, 1.7335 / Stellit 6
4		Spring	X10CrNi18-8, 1.4310	
5		Stud	21CrMoV 5-7, 1.7709	
6		Hexagon nut	21CrMoV 5-7, 1.7709	
7	x	Gasket	Pure graphite (CrNi laminated with graphite)	
L Spare parts				

DN	10	15	20	25	32	40	50
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Face-to-face dimension FTF series 2 acc. to DIN EN 558								Standard-flange dimensions refer to page 5
L	(mm)	210	210	230	230	260	260	300

Dimensions								
H	(mm)	103	103	103	103	145	145	160
Kvs-value	(m³/h)	1,83	3,81	6,78	8,40	19,14	22,30	31,30
Zeta-value	—	4,77	5,57	5,56	8,84	4,57	8,22	10,19

Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173

Weights								
46./86.003	(kg)	—	—	—	—	—	—	23,3
48./88.003	(kg)	7	7,2	8,8	9,8	16,8	18,8	24,3

Larger nominal diameters refer to page 3.

Information / restriction of technical rules need to be observed!

Operating and installation instructions can be downloaded at www.ari-armaturen.com.

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)

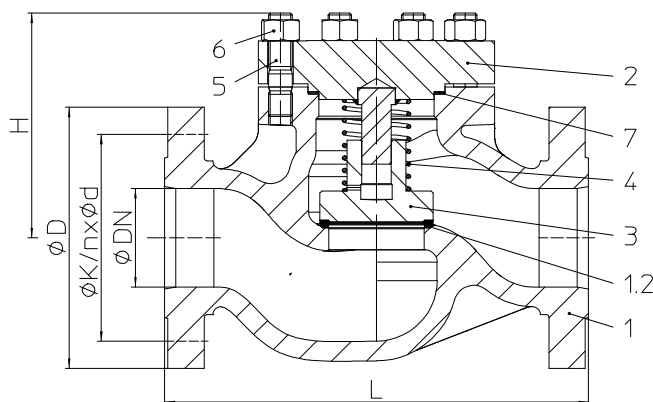
Check valve - straight through with flanges (Cast steel, High temperature cast steel)


Figure	Nominal pressure	Material	Nominal diameter
36.003....30	PN63	1.0619+N	DN65-100
37.003....30	PN100	1.0619+N	DN65-100
38.003....30	PN160	1.0619+N	DN65-100

86.003....89	PN63	1.7357	DN65-100
87.003....89	PN100	1.7357	DN65-100
88.003....89	PN160	1.7357	DN65-100

Smaller nominal diameters refer to page 2.

Set pressure 0,15 bar

The operating point of the valve cannot be chosen in the unstable region!

Parts				
Pos.	Sp.p.	Description	Fig. 36./37./38.003....30	Fig. 86./87./88.003....89
1		Body	GP240GH+N, 1.0619+N	G17CrMo5-5, 1.7357
1.2		Seat ring	Stellit 21	
2		Cover	P265GH, 1.0425	13CrMo4-5, 1.7335
3	x	Plug	P250GH, 1.0460 / Stellit 6	13CrMo4-5, 1.7335 / Stellit 6
4		Spring	X10CrNi18-8, 1.4310	
5		Stud	21CrMoV 5-7, 1.7709	
6		Hexagon nut	21CrMoV 5-7, 1.7709	
7	x	Gasket	Pure graphite (with Cr-Ni-grooved)	
	L	Spare parts		

DN	65	80	100
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Face-to-face dimension FTF Series 2acc. to DIN EN 558			Standard-flange dimensions refer to page 6	
L	(mm)	340	380	430

Dimensions				
H	(mm)	207	217	235
Kvs-value	(m³/h)	77,7	112,3	172
Zeta-value	--	4,72	5,19	5,40
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173				

Weights				
36./86.003	(kg)	40	59	81
37./38.003	(kg)	50	71	98
87./88.003				
Smaller nominal diameters refer to page 2.				

Information / restriction of technical rules need to be observed!

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

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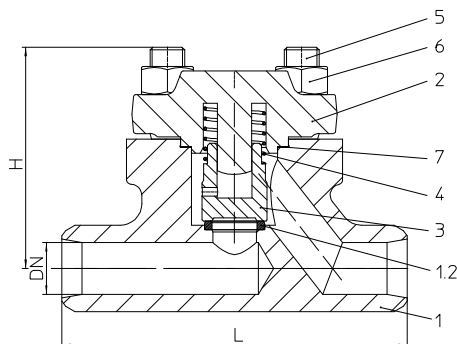
Check valve - straight through with butt weld ends (Forged steel, High temperature steel)


Figure	Nominal pressure	Material	Nominal diameter
46.030....40	PN63	1.0460	DN10-50
47.030....40	PN100	1.0460	DN10-50
48.030....40	PN160	1.0460	DN10-50

86.030....80	PN63	1.5415	DN10-50
87.030....80	PN100	1.5415	DN10-50
88.030....80	PN160	1.5415	DN10-50
86.030....81	PN63	1.7335	DN10-50
87.030....81	PN100	1.7335	DN10-50
88.030....81	PN160	1.7335	DN10-50

Larger nominal diameters refer to page 5.

Set pressure 0,15 bar

The operating point of the valve cannot be chosen in the unstable region!

Butt weld ends according to DIN EN 12627 (refer to page 6)

Parts					
Pos.	Sp.p.	Description	Fig. 46./47./48.030....40	Fig. 86./87./88.030....80	Fig. 86./87./88.030....81
1		Body	P250 GH, 1.0460	16Mo3, 1.5415	13CrMo4-5, 1.7335
1.2		Seat ring	Stellit 21		
2		Cover	P250 GH, 1.0460	13CrMo4-5, 1.7335	
3	x	Plug	X20Cr13+QT, 1.4021+QT (hardened)	13CrMo4-5, 1.7335 / Stellit 6	
4		Spring	X10CrNi18-8, 1.4310		
5		Stud	21CrMoV 5-7, 1.7709		
6		Hexagon nut	21CrMoV 5-7, 1.7709		
7	x	Gasket	Pure graphite (CrNi laminated with graphite)		
	L Spare parts				

DN	10	15	20	25	32	40	50
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Face-to-face dimension ETE series 65 acc. to DIN EN 12982								
L	(mm)	150	150	150	160	180	210	250

Dimensions								
H	(mm)	103	103	103	103	145	145	160
Kvs-value	(m³/h)	1,83	3,81	6,78	8,40	19,14	22,30	31,30
Zeta-value	—	4,77	5,57	5,56	8,84	4,57	8,22	10,19

Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173

Weights								
46./47./48.030 86./87./88.030	(kg)	4,8	4,8	4,8	4,9	11	11	13,5

Larger nominal diameters refer to page 5.

Information / restriction of technical rules need to be observed!

Operating and installation instructions can be downloaded at www.ari-armaturen.com.

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

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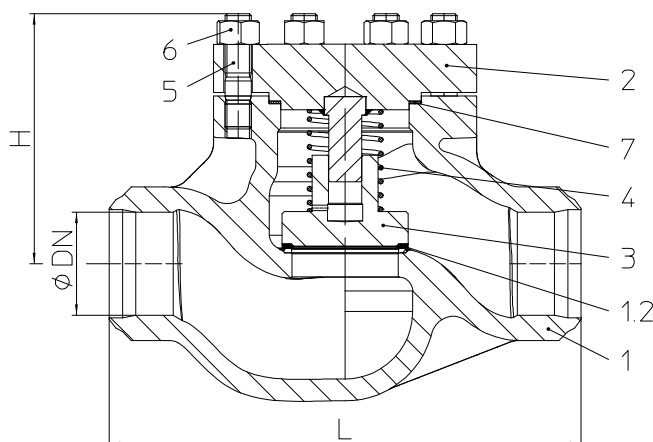
Check valve - straight through with butt weld ends (Cast steel, High temperature cast steel)


Figure	Nominal pressure	Material	Nominal diameter
36.030....30	PN63	1.0619+N	DN65-100
37.030....30	PN100	1.0619+N	DN65-100
38.030....30	PN160	1.0619+N	DN65-100

86.030....89	PN63	1.7357	DN65-100
87.030....89	PN100	1.7357	DN65-100
88.030....89	PN160	1.7357	DN65-100

Smaller nominal diameters refer to page 4.

Set pressure 0,15 bar

The operating point of the valve cannot be chosen in the unstable region!

Butt weld ends according to DIN EN 12627 (refer to page 6)

Parts				
Pos.	Sp.p.	Description	Fig. 36./37./38.030....30	Fig. 86./87./88.030....89
1		Body	GP240GH+N, 1.0619+N	G17CrMo5-5, 1.7335
1.2		Seat ring	Stellit 21	
2		Cover	P265GH, 1.0425	13CrMo4-5, 1.7335
3	x	Plug	P250GH, 1.0460 / Stellit 6	13CrMo4-5, 1.7335 / Stellit 6
4		Spring	X10CrNi18-8, 1.4310	
5		Stud	21CrMoV 5-7, 1.7709	
6		Hexagon nut	21CrMoV 5-7, 1.7709	
7	x	Gasket	Pure graphite (with Cr-Ni-grooved)	
	L	Spare parts		

DN	65	80	100
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Face-to-face dimension ETE Series 65 acc. to DIN EN 12982			
L	(mm)	340	430

Dimensions			
H	(mm)	207	235
Kvs-value	(m³/h)	77,7	172
Zeta-value	--	4,72	5,40

Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173

Weights			
36./37./38.030 86./87./88.030	(kg)	36	78

Smaller nominal diameters refer to page 4.

Information / restriction of technical rules need to be observed!

Operating and installation instructions can be downloaded at www.ari-armaturen.com.

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)

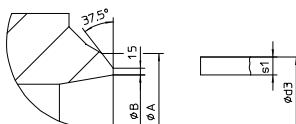
DN			10	15	20	25	32	40	50	65	80	100
Standard-flange dimensions			Flanges according to DIN EN 1092-1 Form B1									
PN63	ØD	(mm)	100	105	130	140	155	170	180	205	215	250
	ØK	(mm)	70	75	90	100	110	125	135	160	170	200
	n x Ød	(mm)	4 x 14	4 x 14	4 x 18	4 x 18	4 x 22	4 x 22	4 x 22	8 x 22	8 x 22	8 x 26
PN100	ØD	(mm)	100	105	130	140	155	170	195	220	230	265
	ØK	(mm)	70	75	90	100	110	125	145	170	180	210
	n x Ød	(mm)	4 x 14	4 x 14	4 x 18	4 x 18	4 x 22	4 x 22	4 x 26	8 x 26	8 x 26	8 x 30
PN160	ØD	(mm)	100	105	130	140	155	170	195	220	230	265
	ØK	(mm)	70	75	90	100	110	125	145	170	180	210
	n x Ød	(mm)	4 x 14	4 x 14	4 x 18	4 x 18	4 x 22	4 x 22	4 x 26	8 x 26	8 x 26	8 x 30

Valves with butt weld ends

L = Face-to-face dimension

Edge shaping acc. to DIN EN 25817

Ød3 / s1 = corresponding pipe dimension



DN			10	15	20	25	32	40	50	65	80	100
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Butt weld ends according to DIN EN 12627

L		(mm)	150	150	150	160	180	210	250	340	380	430
PN63	ØA	(mm)	18	22	28	35	44	50	62	77	91	117
	ØB	(mm)	13,2	17,3	22,3	28,5	37,2	43,1	53,9	68,9	80,9	104,3
	Ød3	(mm)	17,2	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9	114,3
	s1	(mm)	2	2	2,3	2,6	2,6	2,6	3,2	3,6	4	5
PN100	ØA	(mm)	18	22	28	35	44	50	62	77	91	117
	ØB	(mm)	13,2	17,3	22,3	28,5	37,2	43,1	53,9	68,9	80,9	104,3
	Ød3	(mm)	17,2	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9	114,3
	s1	(mm)	2	2	2,3	2,6	2,6	2,6	3,2	3,6	4	5
PN160	ØA	(mm)	18	22	28	35	44	50	62	77	91	117
	ØB	(mm)	13,2	17,3	22,3	27,3	35,2	41,1	52,3	64,9	76,3	98,3
	Ød3	(mm)	17,2	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9	114,3
	s1	(mm)	2	2	2,3	3,2	3,6	3,6	4	5,6	6,3	8

Face-to-face dimension ETE series 65 acc. to DIN EN 12982.

The material used for ARI valves with butt weld ends are:

P250GH, 1.0460 acc. to DIN EN 10222-2

16Mo3, 1.5415 acc. to DIN EN 10222-2

13CrMo4-5, 1.7335 acc. to DIN EN 10222-2

GP240GH+N; 1.0619+N acc. to DIN EN 10213

G17CrMo5-5, 1.7357 acc. to DIN EN 10213

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 manufacturers standard			-10°C bis 50°C	100°C	150 °C	200°C	250°C	300°C	350°C	400°C
1.0619+N	63	(bar)	63	59	56	53	48	44	41	38
	100	(bar)	100	93	88	83	76	69	64	60
	160	(bar)	160	149	141	133	122	110	103	95

acc. to manufacturers standard			-10°C to 50°C	120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.0460	PN 63	(bar)	63	63	58	50	45	40	36	32	24
	PN 100	(bar)	100	100	90	80	70	60	56	50	38
	PN 160	(bar)	160	160	145	130	112	96	90	80	60

acc. to manufacturers standard			-10°C to 250°C	300°C	350°C	400°C	450°C	500°C	520°C	530°C	540°C	550°C
1.5415	PN 63	(bar)	63	56	50	47	45	29	16	14	--	--
	PN 100	(bar)	100	87	78	74	70	45	27	22	--	--
	PN 160	(bar)	160	139	125	118	112	72	43	35	--	--
1.7335	PN 63	(bar)	63	63	61	58	56	47	32	25	20	15
	PN 100	(bar)	100	100	95	91	87	74	49	38	31	24
	PN 160	(bar)	160	160	153	146	139	118	79	62	46	35
1.7357	PN 63	(bar)	63	63	60	57	53	41	28	23	--	--
	PN 100	(bar)	100	100	95	90	84	65	45	37	--	--
	PN 160	(bar)	160	160	152	144	135	104	72	59	--	--

Please indicate when ordering

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

Example:

Figure 46.003; Nominal pressure PN63;
Nominal diameter DN50.



Technology for the Future.
GERMAN QUALITY VALVES

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