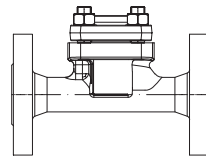


Check valve, metallic sealing

DN 10 - 50

**ARI-CHECKO®-V -  
Straight through with flanges**

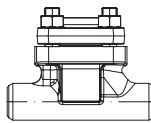
- TRB 801 Annex II No. 45

Cast steel  
Forged steel  
High temperature  
steel**Fig. 003**

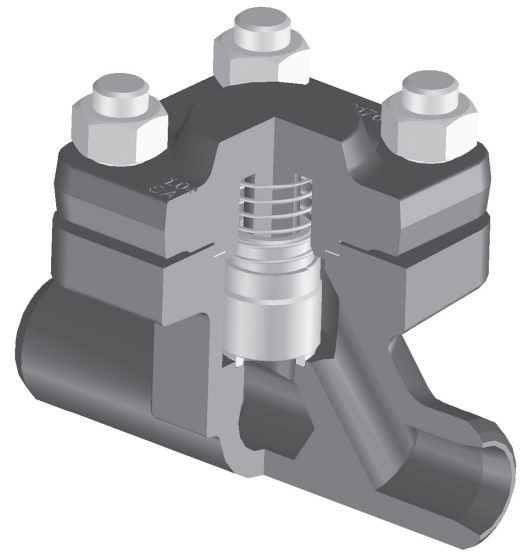
Page 2

**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 3

**Fig. 030****Features:**

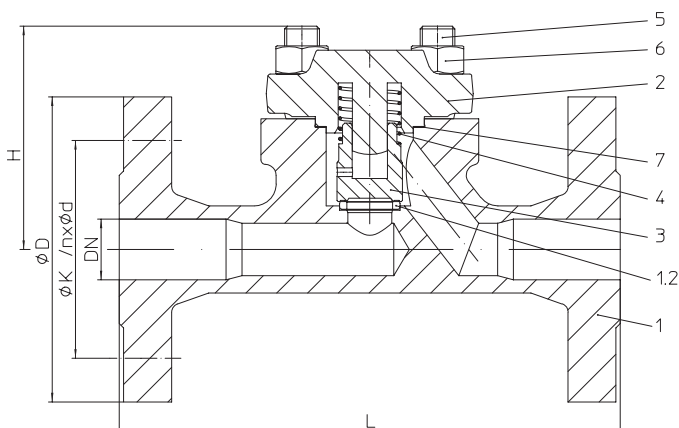
- Solid plug made of stainless material
- Solid seat made of stainless material
- Re-setting spring made of stainless steel
- Precise plug guidance

## 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

Set pressure 0,15 bar



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	
2		Cover	P250 GH, 1.0460	13CrMo4-5, 1.7335
3	x	Plug	X20Cr13+QT, 1.4021+QT (hardened)	13CrMo4-5, 1.7335 / Stellit
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
----	----	----	----	----	----	----	----

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)	2,7	4,2	6,4	8,6	21,8	24,2	33
Zeta-value	--	2,19	4,58	6,24	8,43	3,52	6,98	9,16
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

Information / restriction of technical rules need to be observed!

 Operating and installation instructions can be downloaded at [www.ari-armaturen.com](http://www.ari-armaturen.com).

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

Resistance and fitness must be verified (or contact the manufacturer for information).

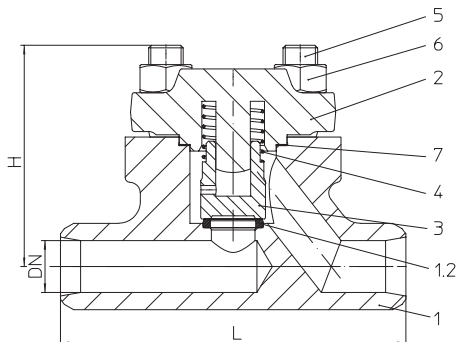
**Check valve - straight through with butt weld ends (Forged steel, High temperature steel)**


Figure	Nominal pressure	Material	Nominal diameter
48.030....40	PN160	1.0460	DN10-50
88.030....80	PN160	1.5415	DN10-50
88.030....81	PN160	1.7335	DN10-50

Set pressure 0,15 bar

Butt weld ends according to DIN EN 12627 (refer to page 5)

Parts					
Pos.	Sp.p.	Description	Fig. 48.030....40	Fig. 88.030....80	Fig. 88.030....81
1		Body	P250 GH, 1.0460	16Mo3, 1.5415	13CrMo4-5, 1.7335
1.2		Seat ring	Stellite		
2		Cover	P250 GH, 1.0460	13CrMo4-5, 1.7335	
3	x	Plug	X20Cr13+QT, 1.4021+QT (hardened)	13CrMo4-5, 1.7335 / Stellite	
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
----	----	----	----	----	----	----	----

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)	2,7	4,2	6,4	8,6	21,8	24,2	33
Zeta-value	--	2,19	4,58	6,24	8,43	3,52	6,89	9,16
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173								

Weights								
48.030 / 88.030	(kg)	4,8	4,8	4,8	4,9	11	11	13,5

Information / restriction of technical rules need to be observed!

Operating and installation instructions can be downloaded at [www.ari-armaturen.com](http://www.ari-armaturen.com).

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

Resistance and fitness must be verified (or contact the manufacturer for information).

Pressure-temperature-ratings Intermediate values for max. permissible operational pressures can be determined by linear interpolation of the given temperature / pressure chart.

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
1.0460	PN 100	(bar)	100	100	90	80	70	60	56	50	38
1.0460	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	--	--
1.5415	PN 100	(bar)	100	87	78	74	70	45	27	22	--	--
1.5415	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
1.7335	PN 100	(bar)	100	100	95	91	87	74	49	38	31	24
1.7335	PN 160	(bar)	160	160	153	146	139	118	79	62	46	35

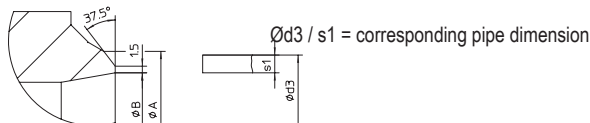
DN	10	15	20	25	32	40	50
----	----	----	----	----	----	----	----

Standard-flange dimensions			Flanges according to DIN 2501, facing acc. to DIN 2526 Form E (Flangeholes / -thickness tol. acc. To DIN 2546/2547/2548)						
PN63	ØD	(mm)	100	105	130	140	155	170	180
PN63	ØK	(mm)	70	75	90	100	110	125	135
PN63	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
PN100	ØD	(mm)	100	105	130	140	155	170	195
PN100	ØK	(mm)	70	75	90	100	110	125	145
PN100	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
PN160	ØD	(mm)	100	105	130	140	155	170	195
PN160	ØK	(mm)	70	75	90	100	110	125	145
PN160	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

**Valves with butt weld ends**

L = Face-to-face dimension

Edge shaping acc. to DIN EN 25817



DN	10	15	20	25	32	40	50
----	----	----	----	----	----	----	----

**Butt weld ends according to DIN EN 12627**

L	(mm)	150	150	150	160	180	210	250
PN63	ØA	(mm)	18	22	28	35	44	62
	ØB	(mm)	13,2	17,3	22,3	27,3	35,2	52,3
	Ød3	(mm)	17,2	21,3	26,9	33,7	42,4	60,3
	s1	(mm)	2	2	2,3	3,2	3,6	4
PN100	ØA	(mm)	18	22	28	35	44	62
	ØB	(mm)	13,2	17,3	22,3	27,3	35,2	52,3
	Ød3	(mm)	17,2	21,3	26,9	33,7	42,4	60,3
	s1	(mm)	2	2	2,3	3,2	3,6	4
PN160	ØA	(mm)	18	22	28	35	44	62
	ØB	(mm)	13,2	17,3	22,3	27,3	35,2	52,3
	Ød3	(mm)	17,2	21,3	26,9	33,7	42,4	60,3
	s1	(mm)	2	2	2,3	3,2	3,6	4

**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

**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

ARI-Armaturen Albert Richter GmbH &amp; Co. KG, D-33756 Schloß Holte-Stukenbrock,

 Tel. +49 52 07 / 994-0, Telefax +49 52 07 / 994-158 or 159 Internet: <http://www.ari-armaturen.com> E-mail: [info.vertrieb@ari-armaturen.com](mailto:info.vertrieb@ari-armaturen.com)

 Dimensions in mm  
Weights in kg  
1 bar  $\hat{=}$  10<sup>5</sup> Pa  $\hat{=}$  0,1 MPa  
Kvs in m<sup>3</sup>/h