

ARI-CHECKO®-V / -D

Check valve

ARI-Check valve, metallic sealing



ARI-CHECKO®-V -

Straight through with flanges

- TRB 801 Annex II No. 45 (except EN-JL1040)
- EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 09 2016 C04

Grey cast iron
SG iron
Cast steel

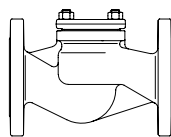


Fig. 003/303

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ARI-CHECKO®-V -

Straight through with flanges

- TRB 801 Annex II No. 45
- EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 09 2016 C04

Forged steel

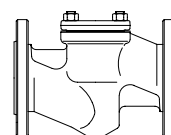


Fig. 003

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ARI-CHECKO®-V -

Straight through with flanges

- TRB 801 Annex II No. 45
- EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 09 2016 C04

Stainless steel

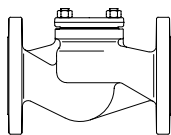


Fig. 003

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ARI-CHECKO®-V -

Angle pattern with flanges

- TRB 801 Annex II No. 45 (except EN-JL1040)
- EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 09 2016 C04

Grey cast iron
SG iron
Cast steel

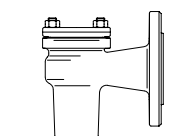


Fig. 004/304

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ARI-CHECKO®-V -

Straight through with butt weld ends

- TRB 801 Annex II No. 45
- EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 09 2016 C04

Forged steel

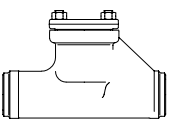


Fig. 030

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ARI-CHECKO®-V -

Straight through with butt weld ends

- TRB 801 Annex II No. 45
- EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 09 2016 C04

Cast steel

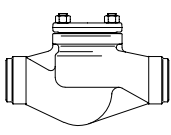


Fig. 030

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ARI-CHECKO®-V -

Y-pattern with flanges

- TRB 801 Annex II No. 45
- EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 09 2016 C04

Stainless steel

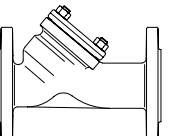


Fig. 039

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ARI-CHECKO®-V -

Y-pattern with butt weld ends

- TRB 801 Annex II No. 45
- EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 09 2016 C04

Cast steel

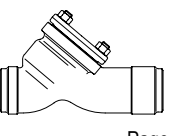


Fig. 063

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ARI-CHECKO®-D -

Disc check valve in clamping version

- TRB 801 Annex II No. 45

Stainless steel

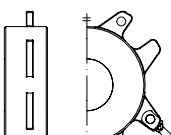


Fig. 001

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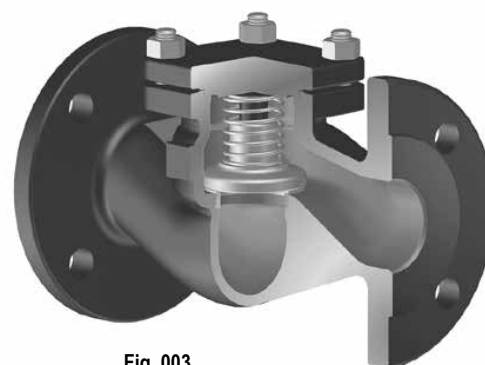


Fig. 003



Fig. 001

Features:

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

ARI-CHECKO®-V 003 / 303

Technical data

Check valve - straight through with flanges (Grey cast iron, SG iron, Cast steel)

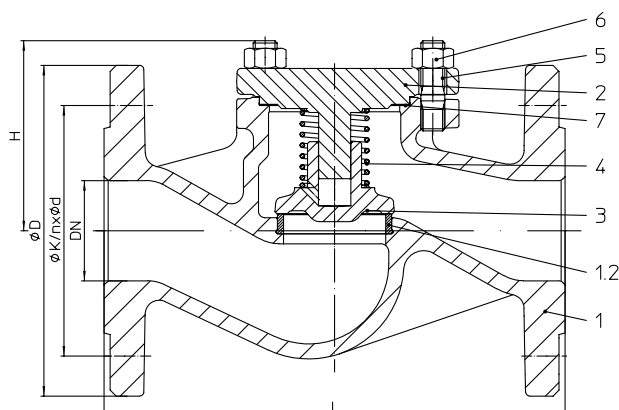


Figure	Nominal pressure	Material	Nominal diameter
10.003	PN6	EN-JL1040	DN15-200
12.003 / 12.303	PN16	EN-JL1040	DN15-300
22.003 / 22.003	PN16	EN-JS1049	DN15-350
23.003 / 23.303	PN25	EN-JS1049	DN15-150
34.003 / 34.303	PN25	1.0619+N	DN15-500
35.003 / 35.303	PN40	1.0619+N	DN15-500

Set pressure 0,1 bar

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

Fig. 303: 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: • EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 09 2016 C04

Considered standards: • EN 16767

Shut off class solid plug

standard: • metallic sealing
Leakage rate C acc. to DIN EN 12266-1

optional: • PTFE-soft sealing
Leakage rate A acc. to DIN EN 12266-1

Parts								
Pos.	Sp.p.	Description	Fig. 10./12.003	Fig. 10./12.303	Fig. 22./23.003	Fig. 22./23.303	Fig. 34./35.003	Fig. 34./35.303
1		Body	EN-JL1040, EN-GJL-250		EN-JS1049, EN-GJS-400-18U-LT		GP240GH+N, 1.0619+N	
1.2		Seat ring	X20Cr13+QT, 1.4021+QT	CuSn10-Cu, CC480K code number 03	X20Cr13+QT, 1.4021+QT	CuSn10-Cu, CC480K code number 03	DN ≤50: X20Cr13+QT, 1.4021+QT DN >50: G19 9 Nb Si, 1.4551	CuSn10-Cu, CC480K code number 03
2		Cover	DN ≤20: EN-JS1049, EN-GJS-400-18U-LT DN >20 EN-JL1040, EN-GJL-250		EN-JS1049, EN-GJS-400-18U-LT		GP240GH+N, 1.0619+N	
3	x	Plug	DN ≤200: X20Cr13+QT, 1.4021+QT DN >200: P265 GH, 1.0425 / G19 9 Nb Si, 1.4551	CuZn35Ni3Mn 2AlPb, CW710R code nr. 02 CuSn10-Cu, CC480K code nr. 03	DN ≤200: X20Cr13+QT, 1.4021+QT DN >200: P265 GH, 1.0425 / G19 9 Nb Si, 1.4551	CuZn35Ni3Mn 2AlPb, CW710R code nr. 02 CuSn10-Cu, CC480K code nr. 03	DN ≤200: X20Cr13+QT, 1.4021+QT DN >200: P265 GH, 1.0425 / G19 9 Nb Si, 1.4551	CuZn35Ni3Mn 2AlPb, CW710R code nr. 02 CuSn10-Cu, CC480K code nr. 03
4		Spring	X10CrNi18-8, 1.4310		X10CrNi18-8, 1.4310			
5		Hexagon bolt	5.6		--			
5		Stud	--		25CrMo4, 1.7218			
6		Hexagon nut	--		C35E, 1.1181			
7	x	Gasket	Pure graphite (CrNi laminated with graphite)					
		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 FTF series 1 according to DIN EN 558															Standard-flange dimensions refer to page 11			
	(mm)	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100	1350*

Dimensions																		
H	(mm)	70	70	80	80	85	95	110	130	155	165	215	285	325	365	420	430	530
Kvs-value	(m³/h)	5,7	7,8	11,8	17,9	27,5	48,0	77,6	109	168	251	389	664	1017	1446	2042	2725	4167
Zeta-value	—	2,5	4,2	4,5	5,2	5,4	4,3	4,7	5,5	5,7	6,2	5,3	5,8	6,0	6,2	5,7	5,5	5,7
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173																		

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

Weights																	
10.003 / 303 (kg)	2,4	2,9	3,5	4,8	6,4	8,2	12,2	18,6	27	42	67	112	--	--	--	--	--
12.003 / 303 (kg)	2,4	3	3,8	5,7	7,4	10,3	15,2	20,4	31	49	69	132	198	278	--	--	--
22.003 / 303 (kg)	3,5	4	5	6	8	11	16	21	31	49	69	132	198	278	383	--	--
23.003 / 303 (kg)	3,5	4	5	6	8	11	16	21	32	51	70	--	--	--	--	--	--
34.003 / 303 (kg)	3,8	4,9	5,9	7,1	10,4	12,3	22,7	28,5	40	64	90	160	222	337	461	709	989
35.003 / 303 (kg)	3,8	4,9	5,9	7,1	10,4	12,3	22,7	28,5	40	64	90	170	240	374	508	786	1044

Information / restriction of technical rules need to be observed!

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

ARI-Valves of EN-JL1040 are not allowed to be operated in systems acc. to TRD 110.

A production permission acc. to TRB 801 No. 45 is available (acc. to TRB 801 No. 45 EN-JL1040 is not allowed.)

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).

ARI-CHECKO®-V 003

Technical data

Check valve - straight through with flanges (Forged steel)

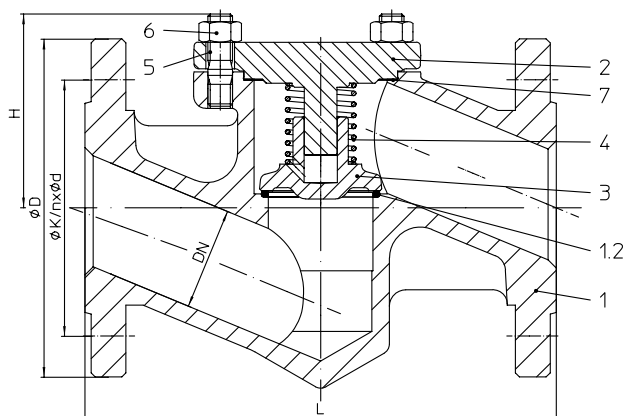


Figure	Nominal pressure	Material	Nominal diameter
45.003	PN40	1.0460	DN15-50

Set pressure 0,1 bar

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

Test: • EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 09 2016 C04

Considered standards: • EN 16767

Shut off class solid plug

standard: • metallic sealing
Leakage rate C acc. to DIN EN 12266-1

optional: • PTFE-soft sealing
Leakage rate A acc. to DIN EN 12266-1

Parts			
Pos.	Sp.p.	Description	Fig. 45.003
1		Body	P250 GH, 1.0460
1.2		Seat ring	G19 9 Nb Si, 1.4551
2		Cover	P250 GH, 1.0460
3	x	Plug	X20Cr13+QT, 1.4021+QT
4		Spring	X10CrNi18-8, 1.4310
5		Stud	25CrMo4, 1.7218
6		Hexagon nut	C35E, 1.1181
7	x	Gasket	Pure graphite (CrNi laminated with graphite)
L Spare parts			

DN	15	20	25	32	40	50
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Face-to-face dimension FTF series 1 according to DIN EN 558				Standard-flange dimensions refer to page 11			
L	(mm)	130	150	160	180	200	230

Dimensions							
H	(mm)	87	89	97	103	95	95
Kvs-value	(m³/h)	3,3	5,5	9,2	15	29,3	36
Zeta-value	--	7,4	8,4	7,4	7,4	4,8	7,7
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173							

Weights							
45.003	(kg)	3,2	4,5	4,6	7,3	9,5	12

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).

ARI-CHECKO®-V 003

Technical data

Check valve - straight through with flanges (Stainless steel)

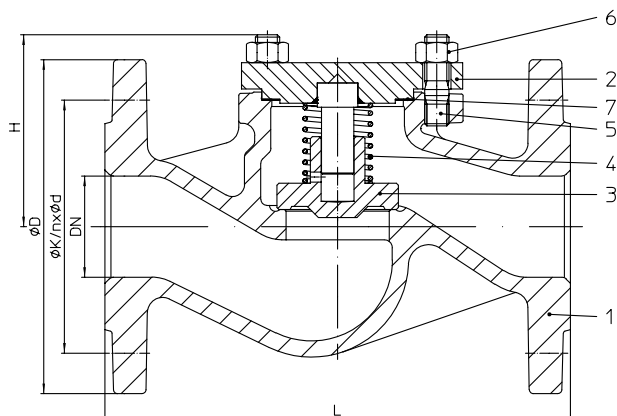


Figure	Nominal pressure	Material	Nominal diameter
52.003	PN16	1.4408	DN65-200
54.003	PN25	1.4408	DN15-200
55.003	PN40	1.4408	DN15-200

Set pressure 0,1 bar

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

Test: • EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 09 2016 C04

Considered standards: • EN 16767

Shut off class solid plug

standard: • metallic sealing
Leakage rate C acc. to DIN EN 12266-1

optional: • PTFE-soft sealing
Leakage rate A acc. to DIN EN 12266-1

Parts			
Pos.	Sp.p.	Description	Fig. 52./54./55.003
1		Body	GX5CrNiMo19-11-2, 1.4408
2		Cover	X6CrNiMoTi17-12-2, 1.4571
3	x	Plug	X6CrNiMoTi17-12-2, 1.4571
4		Spring	X10CrNi18-8, 1.4310
5		Stud	A4-70
6		Hexagon nut	A4
7	x	Gasket	Pure graphite (CrNi laminated with graphite)
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 FTF series 1 according to DIN EN 558 Standard-flange dimensions refer to page 11

L (mm)	130	150	160	180	200	230	290	310	350	400	480	600	on request				
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Dimensions														
H	(mm)	70	70	80	80	85	95	110	130	155	165	215	285	on request
Kvs-value	(m³/h)	5,7	7,8	11,8	17,9	27,5	48,0	77,6	109	168	251	389	664	
Zeta-value	--	2,5	4,2	4,5	5,2	5,4	4,3	4,7	5,5	5,7	6,2	5,3	5,8	
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173														

Weights																	
52.003 (kg)	--	--	--	--	--	--	22,5	28,5	38	61	87	154	on request				
54.003 (kg)	3,8	4,9	5,9	7,1	10	12	22,5	28,5	40	64	90	160					
55.003 (kg)	3,8	4,9	5,9	7,1	10	12	22,5	28,5	40	64	90	170					

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).

ARI-CHECKO®-V 004 / 304

Technical data

Check valve - angle pattern with flanges (Grey cast iron, SG iron, Cast steel)

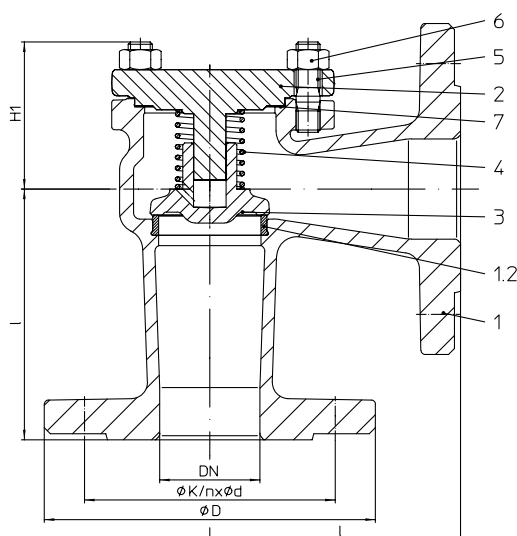


Figure	Nominal pressure	Material	Nominal diameter
12.004 / 12.304	PN16	EN-JL1040	DN15-300
22.004 / 22.304	PN16	EN-JS1049	DN15-350
23.004 / 23.304	PN25	EN-JS1049	DN15-150
34.004 / 34.304	PN25	1.0619+N	DN15-500
35.004 / 35.304	PN40	1.0619+N	DN15-500

Set pressure 0,1 bar

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

Fig. 304: 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: • EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 09 2016 C04

Considered standards: • EN 16767

Shut off class solid plug

standard: • metallic sealing
Leakage rate C acc. to DIN EN 12266-1

optional: • PTFE-soft sealing
Leakage rate A acc. to DIN EN 12266-1

Parts								
Pos.	Sp.p.	Description	Fig. 12.004	Fig. 12.304	Fig. 22./23.004	Fig. 22./23.304	Fig. 34./35.004	Fig. 34./35.304
1		Body	EN-JL1040, EN-GJL-250		EN-JS1049, EN-GJS-400-18U-LT		GP240GH+N, 1.0619+N	
1.2		Seat ring	X20Cr13+QT, 1.4021+QT	CuSn10-Cu, CC480K code number 03	X20Cr13+QT, 1.4021+QT	CuSn10-Cu, CC480K code number 03	X20Cr13+QT, 1.4021+QT DN 80-250: G19 9 Nb Si, 1.4551	CuSn10-Cu, CC480K code number 03
2		Cover	DN ≤200: EN-JS1049, EN-GJS-400-18U-LT DN >200: EN-JL1040, EN-GJL-250		EN-JS1049, EN-GJS-400-18U-LT		GP240GH+N, 1.0619+N	
3	x	Plug	DN ≤200: X20Cr13+QT, 1.4021+QT DN >200: P265 GH, 1.0425 / G19 9 Nb Si, 1.4551	CuSn10-Cu, CC480K code number 03	DN ≤200: X20Cr13+QT, 1.4021+QT DN >200: P265 GH, 1.0425 / G19 9 Nb Si, 1.4551	CuSn10-Cu, CC480K code number 03	DN ≤200: X20Cr13+QT, 1.4021+QT DN >200: P265 GH, 1.0425 / G19 9 Nb Si, 1.4551	CuSn10-Cu, CC480K code number 03
4		Spring	X10CrNi18-8, 1.4310		X10CrNi18-8, 1.4310			
5		Hexagon bolt	5.6		--			
5		Stud	--		25CrMo4, 1.7218			
6		Hexagon nut	--		C35E, 1.1181			
7	x	Gasket	Pure graphite (CrNi laminated with graphite)					
	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 11

I (mm)	90	95	100	105	115	125	145	155	175	200	225	275	325	375	425	475	525 *
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* Face-to-face dimension acc. to ARI-works standard

Dimensions																	
H1 (mm)	40	35	45	45	55	60	65	95	105	120	150	195	220	240	300	310	380
Kvs-value (m³/h)	4,8	8,5	13	22	34	53	88	138	216	331	469	832	1315	1876	2553	3406	5207
Zeta-value	--	3,5	3,5	3,7	3,5	3,5	3,6	3,7	3,4	3,4	3,6	3,7	3,7	3,6	3,7	3,5	3,7

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

Weights																	
12.004 / 304 (kg)	3	3,5	4	6	8	10	14	19	25	45	70	112	179	248	345	--	--
22.004 / 304 (kg)	3	3,5	4	6	8	10	14	19	25	45	70	112	179	248	345	--	--
23.004 / 304 (kg)	3	3,5	4,1	6	8	10	14	20	29	49	73	on request					
34.004 / 304 (kg)	4,2	4,9	5	7,6	10	12	24,5	28,5	42	55	90	145	170	225	383	623	870
35.004 / 304 (kg)	4,2	4,9	5	7,6	10	12	24,5	28,5	42	55	90	155	188	262	430	700	925

Information / restriction of technical rules need to be observed!

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

ARI-Valves of EN-JL1040 are not allowed to be operated in systems acc. to TRD 110.

A production permission acc. to TRB 801 No. 45 is available (acc. to TRB 801 No. 45 EN-JL1040 is not allowed.)

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).

ARI-CHECKO®-V 030

Technical data

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

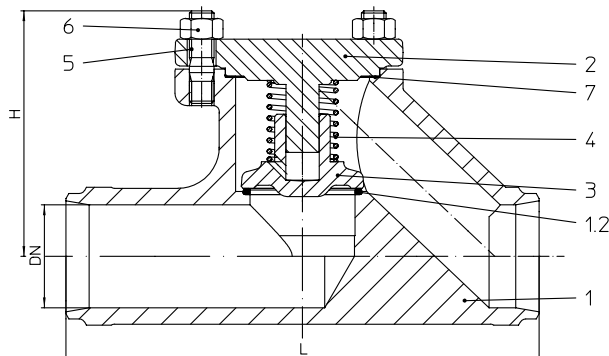


Figure	Nominal pressure	Material	Nominal diameter
45.030	PN40	1.0460	DN15-50

Set pressure 0,1 bar

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

Butt weld ends according to DIN EN 12627 Fig. 4 (refer to page 12)

Test: • EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 09 2016 C04

Considered standards: • EN 16767

Shut off class solid plug

standard: • metallic sealing
Leakage rate C acc. to DIN EN 12266-1

optional: • PTFE-soft sealing
Leakage rate A acc. to DIN EN 12266-1

Parts			
Pos.	Sp.p.	Description	Fig. 45.030
1		Body	P250 GH, 1.0460
1.2		Seat ring	G19 9 Nb Si, 1.4551
2		Cover	P250 GH, 1.0460
3	x	Plug	X20Cr13+QT, 1.4021+QT
4		Spring	X10CrNi18-8, 1.4310
5		Stud	25CrMo4, 1.7218
6		Hexagon nut	C35E, 1.1181
7	x	Gasket	Pure graphite (CrNi laminated with graphite)
L Spare parts			

DN	15	20	25	32	40	50
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Face-to-face dimension ETE series 1 according to DIN EN 12982

L	(mm)	130	150	160	180	200	230
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Dimensions

	(mm)	70	70	80	80	85	95
H							
Kvs-value	(m³/h)	3,3	5,5	9,2	15	29,3	36
Zeta-value	--	7,4	8,4	7,4	7,4	4,8	7,7

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

Weights

	(kg)	3	3,9	4,6	5,3	8,5	9,7
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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).

ARI-CHECKO®-V 030

Technical data

Check valve - straight through with butt weld ends (Cast steel)

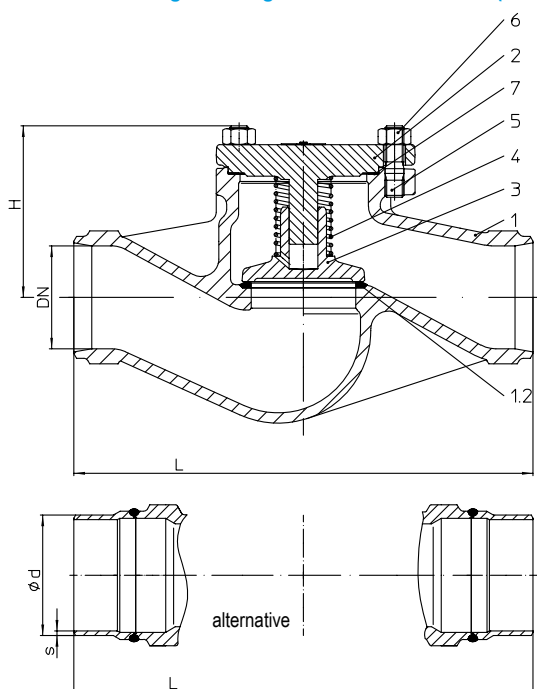


Figure	Nominal pressure	Material	Nominal diameter
35.030	PN40	1.0619+N	DN65-300

Set pressure 0,1 bar

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

Butt weld ends according to DIN EN 12627 Fig. 4 (refer to page 12)

alternative: DN 65-200 with shoed ends of P235GH

Test:	• EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 09 2016 C04
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Considered standards:	• EN 16767
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Shut off class solid plug

standard: • metallic sealing
Leakage rate C acc. to DIN EN 12266-1

optional: • PTFE-soft sealing
Leakage rate A acc. to DIN EN 12266-1

Parts			
Pos.	Sp.p.	Description	Fig. 35.030
1		Body	GP240GH+N, 1.0619+N
1.2		Seat ring	G19 9 Nb Si, 1.4551
2		Cover	GP240GH+N, 1.0619+N
3	x	Plug	DN ≤200: X20Cr13+QT, 1.4021+QT DN >200: P265 GH, 1.0425 / G19 9 Nb Si, 1.4551
4		Spring	X10CrNi18-8, 1.4310
5		Stud	25CrMo4, 1.7218
6		Hexagon nut	C35E, 1.1181
7	x	Gasket	Pure graphite (CrNi laminated with graphite)
L Spare parts			

DN	65	80	100	125	150	200	250	300
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Face-to-face dimension ETE series 1 according to DIN EN 12982									
L	(mm)	290	310	350	400	480	600	730	850

Dimensions									
H	(mm)	110	130	155	165	215	285	325	365
Kvs-value	(m³/h)	77,6	109	168	251	389	664	1017	1446
Zeta-value	--	4,7	5,5	5,7	6,2	5,3	5,8	6	6,2
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173									

Weights									
35.030	(kg)	19,2	24	34	56	80	152	222	300

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).