

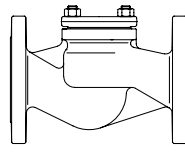
ARI-Check valve, metallic sealing

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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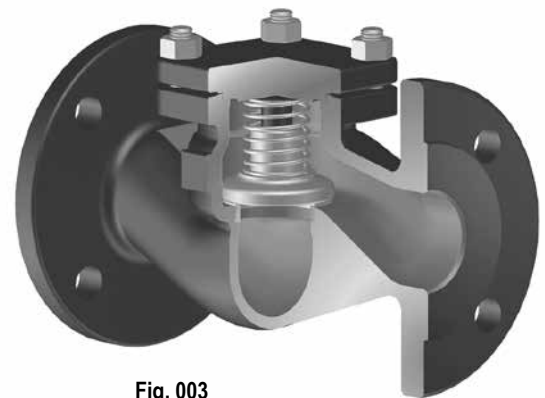


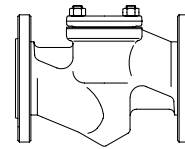
Fig. 003

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



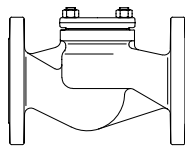
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ARI-CHECKO®-V -

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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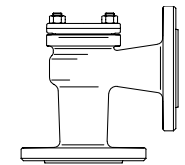
Fig. 001

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



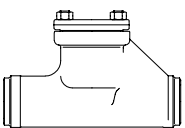
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ARI-CHECKO®-V -

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



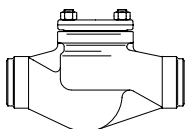
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ARI-CHECKO®-V -

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



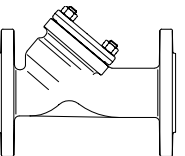
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ARI-CHECKO®-V -

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



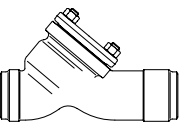
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ARI-CHECKO®-V -

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



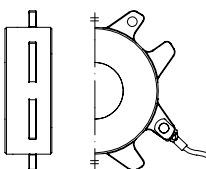
Page 9

ARI-CHECKO®-D -

Disc check valve in clamping version

- TRB 801 Annex II No. 45

Stainless steel
Fig. 001



Page 10

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

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:

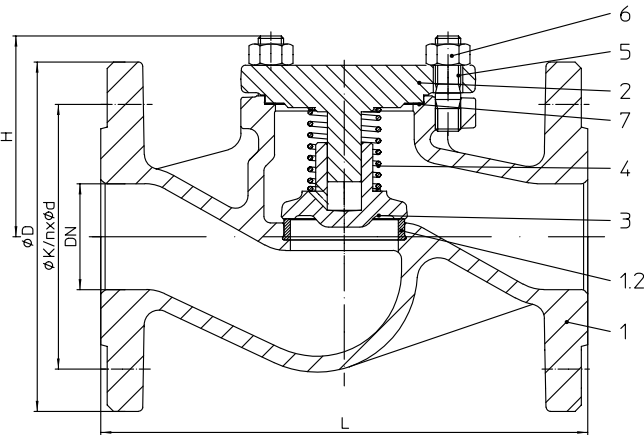
 CuZn35Ni3Mn2AlPb, CW710R code number 02
 CuSn10-Cu, CC480K code number 03
 (max. operating temperature: 180°C, code number acc. to DIN 86251)

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 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| 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 | 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

| 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.

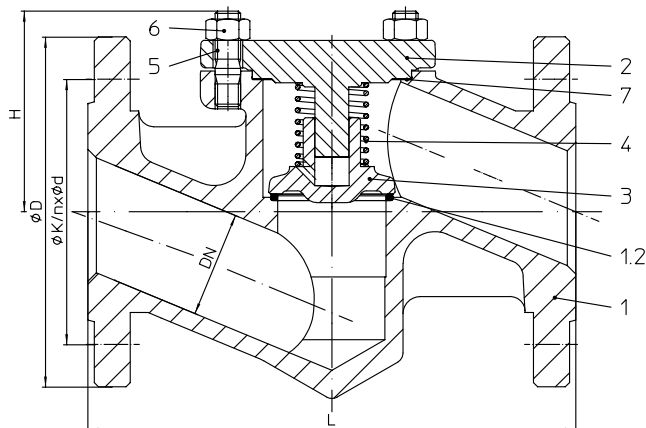
ARI-Valves of EN-JL1040 are not allowed to be operated in systems acc. to TRD 110.

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).

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 |
|----|----|----|----|----|----|----|
|----|----|----|----|----|----|----|

| 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 | (m ³ /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 |

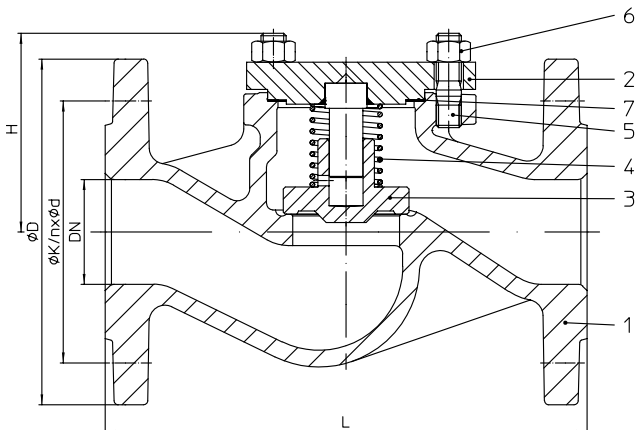
Information / restriction of technical rules need to be observed!

 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).

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 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| 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 | | | | |

| 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 | on request | | |
| 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 | on request | | |
| 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 | on request | | |
| 55.003 | (kg) | 3,8 | 4,9 | 5,9 | 7,1 | 10 | 12 | 22,5 | 28,5 | 40 | 64 | 90 | 170 | on request | | |

Information / restriction of technical rules need to be observed!

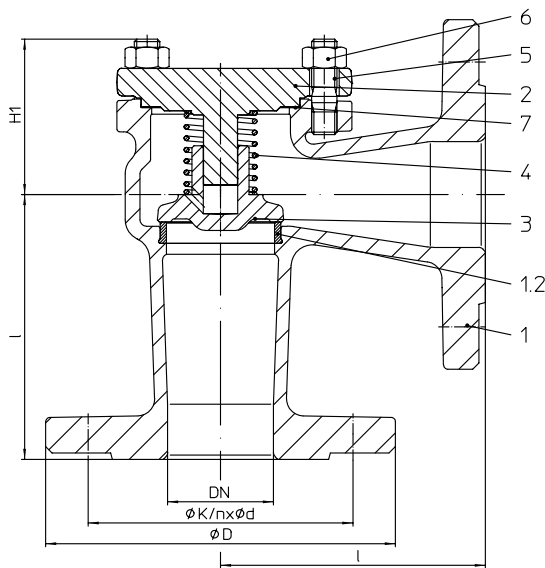
 Operating and installation instructions can be downloaded at www.ari-armaturen.com.

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 - 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 ≤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 | 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 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| Face-to-face dimension CTF series 8 according to DIN EN 558 | | | | | | | | | | | | | | | | | | Standard-flange dimensions refer to page 11 | | | | | | | | | | | | | | | | | |
|---|------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| l | (mm) | 90 | 95 | 100 | 105 | 115 | 125 | 145 | 155 | 175 | 200 | 225 | 275 | 325 | 375 | 425 | 475 | 525* | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | * 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 | 3,7 | 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!

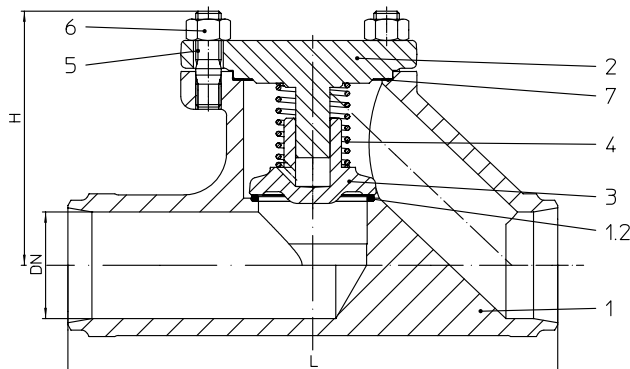
 Operating and installation instructions can be downloaded at www.ari-armaturen.com.

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).

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 |
|----|----|----|----|----|----|----|
|----|----|----|----|----|----|----|

| Face-to-face dimension ETE series 1 according to DIN EN 12982 | | | | | | | |
|---|------|-----|-----|-----|-----|-----|-----|
| L | (mm) | 130 | 150 | 160 | 180 | 200 | 230 |

| Dimensions | | | | | | | |
|---|--------|-----|-----|-----|-----|------|-----|
| H | (mm) | 70 | 70 | 80 | 80 | 85 | 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 | | | | | | | |
|---------|------|---|-----|-----|-----|-----|-----|
| 45.030 | (kg) | 3 | 3,9 | 4,6 | 5,3 | 8,5 | 9,7 |

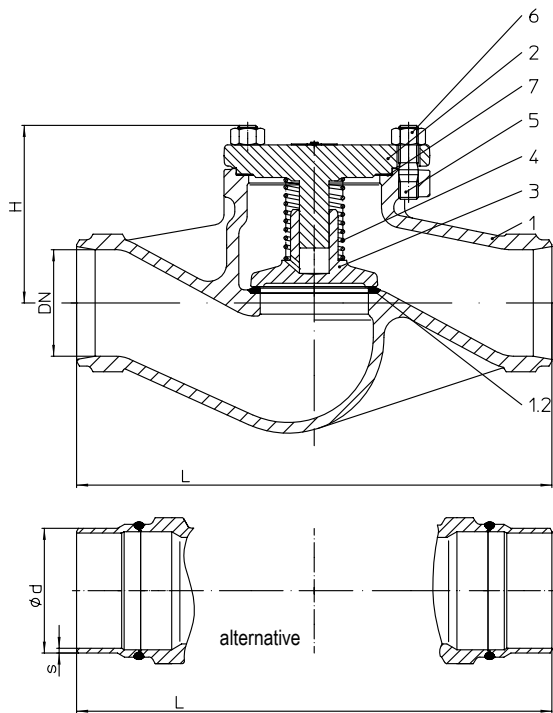
Information / restriction of technical rules need to be observed!

 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 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

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. 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 |
|----|----|----|-----|-----|-----|-----|-----|-----|
|----|----|----|-----|-----|-----|-----|-----|-----|

| 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!

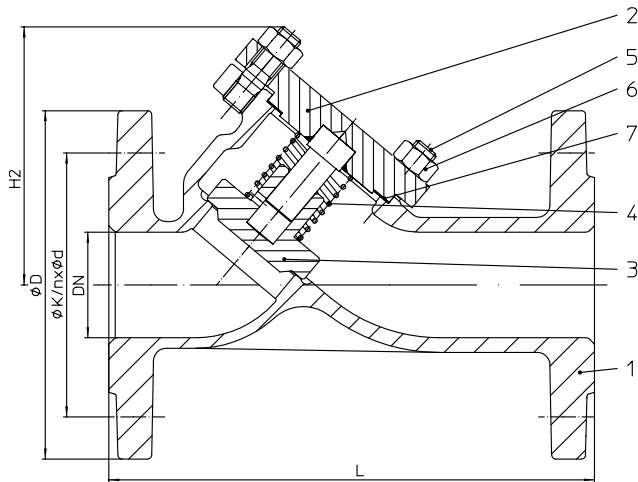
 Operating and installation instructions can be downloaded at www.ari-armaturen.com.

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).

Check valve - Y-pattern with flanges (Stainless steel)



| Figure | Nominal pressure | Material | Nominal diameter |
|--------|------------------|----------|------------------|
| 52.039 | PN16 | 1.4408 | DN15-200 |
| 54.039 | PN25 | 1.4408 | DN15-200 |
| 55.039 | 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./55.039 |
| 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 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|

| 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 | |

| Dimensions | | | | | | | | | | | | | |
|---|--------|-----|-----|------|------|-----|------|------|-----|-----|-----|-----|-----|
| H2 | (mm) | 75 | 75 | 90 | 90 | 110 | 110 | 135 | 160 | 200 | 245 | 300 | 390 |
| Kvs-value | (m³/h) | 6,7 | 8,5 | 14,9 | 18,8 | 33 | 50,9 | 78,5 | 124 | 181 | 302 | 450 | 791 |
| Zeta-value | -- | 1,8 | 3,5 | 2,8 | 4,7 | 3,8 | 3,9 | 4,6 | 4,3 | 4,9 | 4,3 | 4 | 4,1 |
| Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173 | | | | | | | | | | | | | |

| Weights | | | | | | | | | | | | | |
|---------|------|-----|-----|---|---|-----|----|------|----|----|----|----|-----|
| 52.039 | (kg) | 3,1 | 3,8 | 5 | 7 | 8,4 | 11 | 15,5 | 22 | 29 | 42 | 65 | 119 |
| 54.039 | (kg) | 3,1 | 3,8 | 5 | 7 | 8,4 | 11 | 15,5 | 22 | 31 | 45 | 68 | 125 |
| 55.039 | (kg) | 3,1 | 3,8 | 5 | 7 | 8,4 | 11 | 15,5 | 22 | 31 | 45 | 68 | 135 |

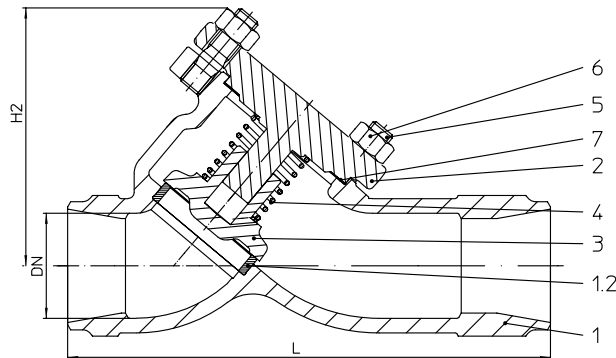
Information / restriction of technical rules need to be observed!

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 - Y-pattern with butt weld ends (Cast steel)


| Figure | Nominal pressure | Material | Nominal diameter |
|--------|------------------|----------|------------------|
| 35.063 | PN40 | 1.0619+N | DN15-250 |

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. 35.063 |
| 1 | | Body | GP240GH+N, 1.0619+N |
| 1.2 | | Seat ring | DN ≤80: X20Cr13+QT, 1.4021+QT DN >80: 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 | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|

| Face-to-face dimension ETE series 1 according to DIN EN 12982 | | | | | | | | | | | | | | | |
|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|
| L | (mm) | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | on request |

| Dimensions | | | | | | | | | | | | | | | |
|------------|--------|-----|-----|------|------|-----|------|------|-----|-----|-----|-----|-----|------|------------|
| H2 | (mm) | 75 | 75 | 90 | 90 | 110 | 110 | 135 | 160 | 200 | 245 | 300 | 390 | 470 | on request |
| Kvs-value | (m³/h) | 6,7 | 8,5 | 14,9 | 18,8 | 33 | 50,9 | 78,5 | 124 | 181 | 302 | 450 | 791 | 1230 | |
| Zeta-value | -- | 1,8 | 3,5 | 2,8 | 4,7 | 3,8 | 3,9 | 4,6 | 4,3 | 4,9 | 4,3 | 4 | 4,1 | 4,1 | |

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

| Weights | | | | | | | | | | | | | | | |
|---------|------|-----|-----|-----|-----|-----|-----|-----|------|----|------|------|-----|-----|------------|
| 35.063 | (kg) | 2,3 | 2,4 | 3,1 | 3,4 | 4,5 | 5,7 | 9,8 | 13,3 | 20 | 25,5 | 43,8 | 140 | 162 | on request |

Information / restriction of technical rules need to be observed!

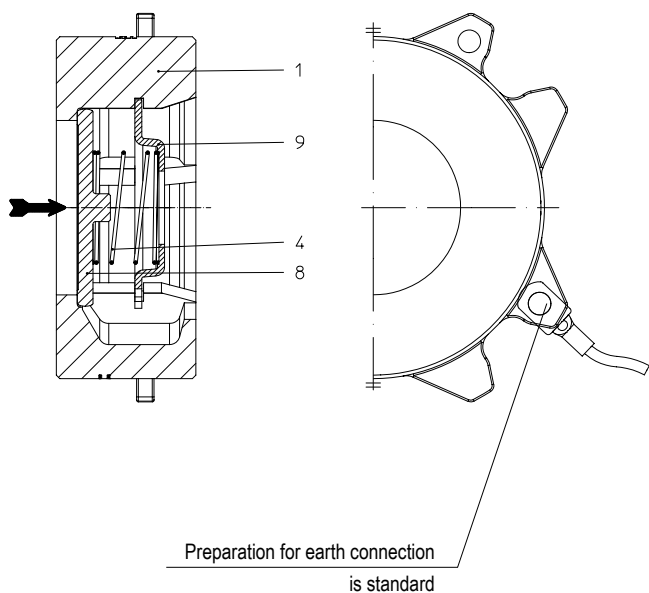
 Operating and installation instructions can be downloaded at www.ari-armaturen.com.

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).

Disc check valve in clamping version (Stainless steel)



| Figure | Nominal pressure | Material | Nominal diameter |
|--------|-----------------------|----------|------------------|
| 55.001 | PN40 | 1.4408 | DN15-100 |
| | DN125-350 on request. | | |

Set pressure 0,02 barg.
The operating point of the valve cannot be chosen in the unstable region!

Shut off class valve plate

standard:

- metallic sealing
 Leakage rate BN2/BO3 acc. to DIN 3230-3
 (Leakage rate D acc. to DIN EN 12266-1 fulfilled)

optional:

- EPDM-soft sealing (max. 120°C)
 Leakage rate A acc. to DIN EN 12266-1
- NBR-soft sealing (max. 80°C)
 Leakage rate A acc. to DIN EN 12266-1
- FPM (Viton)-soft sealing (max. 150°C)
 Leakage rate A acc. to DIN EN 12266-1
 (not for hot water useable)

| Parts | | | |
|---------------|-------|--------------|---------------------------|
| Pos. | Sp.p. | Description | Fig. 55.001 |
| 1 | | Body | GX5CrNiMo19-11-2, 1.4408 |
| 4 | | Spring | X10CrNi18-8, 1.4310 |
| 8 | x | Valve plate | X6CrNiMoTi17-12-2, 1.4571 |
| 9 | | Spring plate | X6CrNiMoTi17-12-2, 1.4571 |
| L Spare parts | | | |

| DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 |
|----|----|----|----|----|----|----|----|----|-----|
|----|----|----|----|----|----|----|----|----|-----|

| Face-to-face dimension FTF series 49 acc. to DIN EN 558 | | | | | | | | | | |
|---|------|----|----|----|----|------|----|----|----|----|
| L | (mm) | 16 | 19 | 22 | 28 | 31,5 | 40 | 46 | 50 | 60 |

| Dimensions | | | | | | | | | | |
|---|--------|------|-----|------|------|------|------|-----|------|-------|
| ØD (acc. to DIN EN 14341) | (mm) | 13 | 19 | 25 | 31 | 38 | 50 | 63 | 76 | 100 |
| ØD1 | (mm) | 45 | 55 | 65 | 75 | 85 | 98 | 118 | 134 | 154 |
| Kvs-value | (m³/h) | 4,4 | 7,1 | 12 | 19,5 | 25 | 46 | 69 | 87 | 122 |
| Zeta-value | -- | 4,18 | 5 | 4,33 | 4,4 | 6,54 | 4,72 | 6 | 8,64 | 10,73 |
| Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173 | | | | | | | | | | |

| Weights | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|-----|-----|-----|
| 55.001 | (kg) | 0,16 | 0,28 | 0,43 | 0,68 | 0,94 | 1,36 | 2,0 | 2,8 | 3,7 |

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 | 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 | 450 | 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.

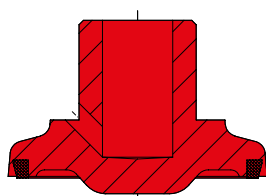
| acc. to DIN EN 1092-2 | | | -60°C to <-10°C ¹⁾ | -10°C to 120°C | 150°C | 200°C | 250°C | 300°C | 350°C | 400°C | 450°C |
|-----------------------|----|-------|-------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| EN-JL1040 | 6 | (bar) | -- | 6 | 5,4 | 4,8 | 4,2 | 3,6 | -- | -- | -- |
| 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 |

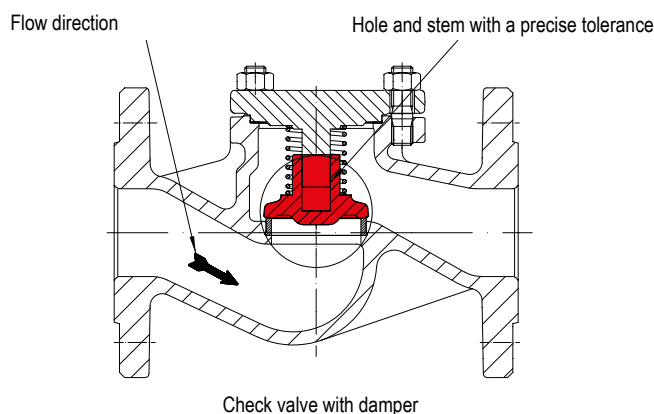
| acc. to DIN EN 1092-1 | | | -60°C to <-10°C ¹⁾ | -10°C to 100°C | 150°C | 200°C | 250°C | 300°C | 350°C | 400°C | 450°C |
|-----------------------|----|-------|-------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1.4408 | 16 | (bar) | 16 | 16 | 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)

CHECKO®-V: Plug design



Soft sealing plug
Max. operating temperature 200°C at PTFE + 25% carbon



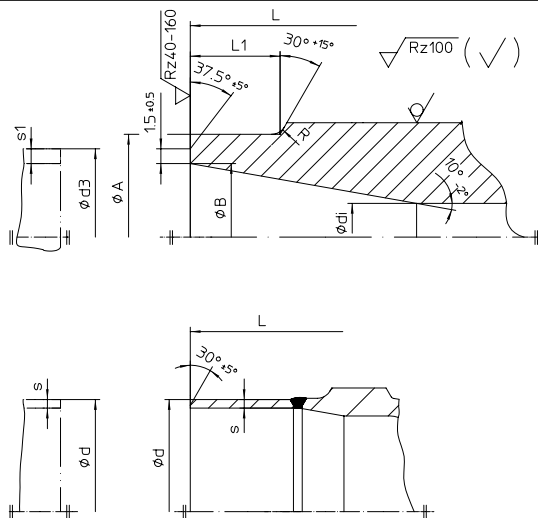
In special applications, like high flow turbulences, check valves with damper should be used:

- if check valves are mounted directly by centrifuged pumps;
- behind pressure reduction stations;
- behind pipe elbows;
- in compact plants;
- if expansion joints are missing;
- if the pump is not mounted on a damper;
- if there is no flow stabilizing pipe dimension;
- if there is no start-up bypass line;
- when chosen valve diameter to large.

Working principle

The precise tolerance between shaft and plug hole prevents an abrupt displacement of medium out of the plug.

L = Face-to-face dimension
 Edge shaping acc. to DIN EN 25817



| DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|

| Butt weld ends according to DIN EN 12627 | | | | | | | | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-----|-------|-------|-------|
| L | (mm) | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980 | 1100 |
| ØA | (mm) | 22 | 28 | 35 | 44 | 50 | 62 | 77 | 91 | 117 | 144 | 172 | 223 | 278 | 329 | 362 | 413 |
| ØB | (mm) | 17,3 | 22,3 | 28,5 | 37,2 | 43,1 | 53,9 | 68,9 | 80,9 | 104,3 | 130,7 | 157,1 | 204,9 | 257 | 307,9 | 338 | 384,4 |
| Ødi | (mm) | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 330 | 375 |
| R | (mm) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 |
| L1 (similar) | (mm) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 12 | 14 | 18 | 20 | 20 | 25 | 33 | 45 | 45 |
| Ød3 | (mm) | 21,3 | 26,9 | 33,7 | 42,4 | 48,3 | 60,3 | 76,1 | 88,9 | 114,3 | 139,7 | 168,3 | 219,1 | 273 | 323,9 | 355,6 | 406,4 |
| s1 | (mm) | 2 | 2,3 | 2,6 | 2,6 | 2,6 | 3,2 | 3,6 | 4 | 5 | 4,5 | 5,6 | 7,1 | 8 | 8 | 8,8 | 11 |

Face-to-face dimension acc. to DIN EN 12982 ETE-1

Butt weld ends according to DIN EN 12627 Fig. 4

Weld joint according to DIN EN 29692 code number 1.3.3

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

GP240GH+N, 1.0619+N acc. to DIN EN 10213-2,

P250 GH, 1.0460 acc. to DIN EN 10222-2.

| DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|

| Shoed ends of P235GH (Pipe connection Δ welding neck flanges) | | | | | | | | | | | | | | | | | |
|--|------|----|----|----|----|----|----|------|------|-------|-------|-------|-------|----|----|----|----|
| Ød | (mm) | -- | -- | -- | -- | -- | -- | 76,1 | 88,9 | 114,3 | 139,7 | 168,3 | 219,1 | -- | -- | -- | -- |
| Øs | (mm) | -- | -- | -- | -- | -- | -- | 2,9 | 3,2 | 3,6 | 4 | 4,5 | 6,3 | -- | -- | -- | -- |

The material used for ARI valves with shoed ends (DN 65-200) P235GH according to DIN EN 10216-2.

Based on our experience we recommend electric welding process for connecting valves or strainers with tubes or with each other.

Lime based electrodes with an appropriate composite material should be used as filler material for welding.

Gas welding should be avoided.

Due to the different material composition and material thickness of valves and tubes, gas welding is more susceptible to produce faults than electric welding (hardness cracks, coarse-grained structure).

Please indicate when ordering:

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

Example:

Figure 35.003; nominal pressure PN40; nominal diameter DN100.



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