

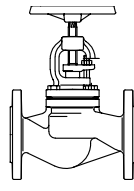
Stop valve with gland seal metal seat

ARI-STOBU® -

Straight through with flanges

- TRB 801 Annex II No. 45 (except EN-JL1040)
- EN ISO 15848-1 / TA - Luft (optional)
TÜV-Test-No. TA 08 2016 C04

Grey cast iron
SG iron
Fig. 006/306



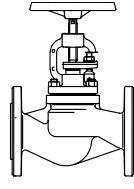
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ARI-STOBU® -

Straight through with flanges

- TRB 801 Annex II No. 45
- EN ISO 15848-1 / TA - Luft (optional)
TÜV-Test-No. TA 08 2016 C04

Cast steel
Fig. 006/306



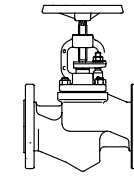
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ARI-STOBU® -

Straight through with flanges

- TRB 801 Annex II No. 45
- EN ISO 15848-1 / TA - Luft (optional)
TÜV-Test-No. TA 08 2016 C04

Forged steel
Fig. 006



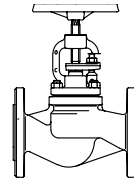
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ARI-STOBU® -

Straight through with flanges

- TRB 801 Annex II No. 45
- EN ISO 15848-1 / TA - Luft (optional)
TÜV-Test-No. TA 08 2016 C04

Stainless steel
Fig. 006



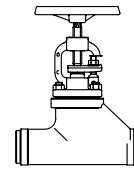
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ARI-STOBU® -

Straight through with butt weld ends

- TRB 801 Annex II No. 45
- EN ISO 15848-1 / TA - Luft (optional)
TÜV-Test-No. TA 08 2016 C04

Forged steel
Fig. 005



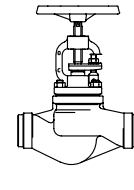
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ARI-STOBU® -

Straight through with butt weld ends

- TRB 801 Annex II No. 45
- EN ISO 15848-1 / TA - Luft (optional)
TÜV-Test-No. TA 08 2016 C04

Cast steel
Fig. 005



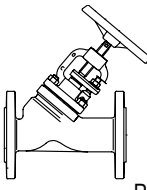
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ARI-STOBU® -

Y-pattern with flanges

- TRB 801 Annex II No. 45
- EN ISO 15848-1 / TA - Luft (optional)
TÜV-Test-No. TA 08 2016 C04

Stainless steel
Fig. 009



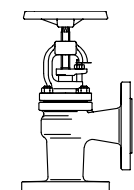
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ARI-STOBU® -

Angle pattern with flanges

- TRB 801 Annex II No. 45 (except EN-JL1040)
- EN ISO 15848-1 / TA - Luft (optional)
TÜV-Test-No. TA 08 2016 C04

Grey cast iron
SG iron
Fig. 007/307



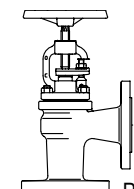
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ARI-STOBU® -

Angle pattern with flanges

- TRB 801 Annex II No. 45
- EN ISO 15848-1 / TA - Luft (optional)
TÜV-Test-No. TA 08 2016 C04

Cast steel
Fig. 007/307



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Fig. 006

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Features:

- Proven technology
 - Solid plug made of stainless material
 - Solid stem made of stainless material
 - Solid seat made of stainless material
 - Stem with roll hardened thread
 - Burnished stem
 - High-tensile gland packing
 - Favourable zeta-values also for small nominal diameters
- In cast steel, forged steel and stainless steel:
- Bonnet top with threaded bushing
 - Flap-type screws

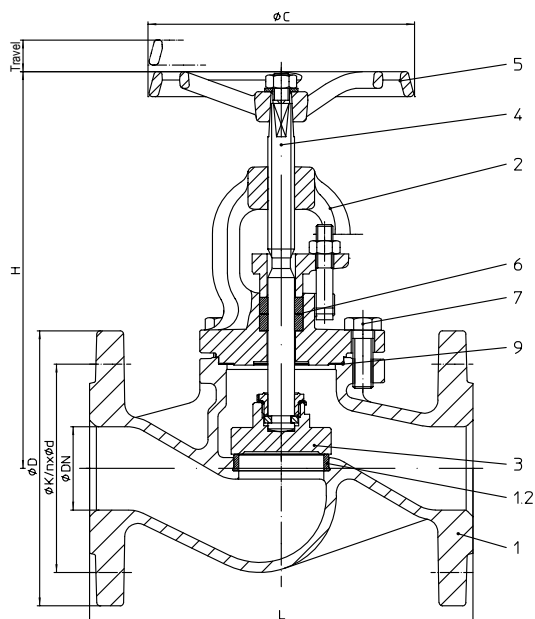
Stop valve - straight through with flanges and gland seal (Grey cast iron, SG iron)


Figure	Nominal pressure	Material	Nominal diameter
12.006	PN16	EN-JL1040	DN15-300
12.306	PN16	EN-JL1040	DN15-300
22.006	PN16	EN-JS1049	DN15-350
22.306	PN16	EN-JS1049	DN15-350
23.006	PN25	EN-JS1049	DN15-150
23.306	PN25	EN-JS1049	DN15-150

Fig. 306: 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)
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Considered standards:	• EN 13789 (EN-JL1040, EN-JS1049)
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**At high differential pressures a balancing plug is necessary!
 (not possible at Fig. 306, observe max. differential pressure!)
 (refer to page 13)**

Parts						
Pos.	Sp.p.	Description	Fig. 12.006	Fig. 12.306	Fig. 22./23.006	Fig. 22./23.306
1		Body	EN-JL1040, EN-GJL-250		EN-JS1049, EN-GJS-400-18U-LT	
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
2		Bonnet	EN-JL1040, EN-GJL-250		EN-JS1049, EN-GJS-400-18U-LT	
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	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)	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		Hexagon bolt	5.6		--	
7		Stud	--		25CrMo4, 1.7218	
8		Hexagon nut	--		C35E, 1.1181	
9	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
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Face-to-face dimension FTF series 1 according to DIN EN 558															Standard-flange dimensions refer to page 15		
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	

Dimensions																
H	(mm)	185	185	205	205	230	230	270	305	355	395	450	570	685	770	860
ØC	(mm)	120	120	140	140	160	160	180	200	225	250	400	520	520	520	640
Travel	(mm)	9	9	13	13	21	19	28	32	36	52	56	73	80	110	116
Kvs-value	(m³/h)	4,2	7,4	12	19	31	47	77	120	188	288	410	725	1145	1635	2220
Zeta-value	--	4,6	4,7	4,3	4,6	4,3	4,5	4,8	4,5	4,5	4,7	4,8	4,9	4,8	4,8	4,9

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

Weights																
12.006 / 306	(kg)	3,5	4	5	6,8	9,3	12,2	18	24,5	35	55	77	145	243	341	--
22.006 / 306	(kg)	3,9	4,3	5,4	7	9,5	12,9	18,4	24,5	36	56	78	122	247	336	451
23.006 / 306	(kg)	3,9	4,3	5,4	7	9,5	12,9	18,4	24,5	36	56	78	--	--	--	--

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).

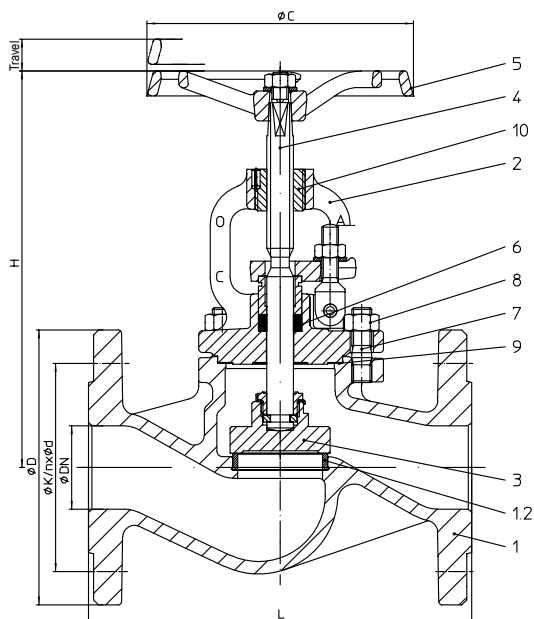
Stop valve - straight through with flanges and gland seal (Cast steel)


Figure	Nominal pressure	Material	Nominal diameter
34.006	PN25	1.0619+N	DN15-500
34.306	PN25	1.0619+N	DN15-500
35.006	PN40	1.0619+N	DN15-500
35.306	PN40	1.0619+N	DN15-500

Fig. 306: 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. 306, observe max. differential pressure!)
 (refer to page 13)**

Parts				Fig. 34./35.006	Fig. 34./35.306
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 ²⁾	
4	x	Stem	X20Cr13+QT, 1.4021+QT (burnished) CuSn8, CW453K code number 03 (burnished)		
5		Handwheel	EN-JL 1040, 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 FTF series 1 according to DIN EN 558																	Standard-flange dimensions refer to page 15	
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100	1350 *

* acc. to manufacturers standard

Dimensions																			
	(mm)	185	185	205	205	230	230	270	305	355	395	450	570	685	770	860	865	995	
H	(mm)	120	120	140	140	160	160	180	200	225	250	400	520	520	520	640	640	640	
ØC	(mm)	9	9	13	13	21	19	28	32	36	52	56	73	80	110	116	126	181	
Travel	(mm)	4,2	7,4	12	19	31	47	77	120	188	288	410	725	1145	1635	2220	3180	4530	
Kvs-value	(m³/h)	--	4,6	4,7	4,3	4,6	4,3	4,5	4,8	4,5	4,5	4,7	4,8	4,9	4,8	4,8	4,9	3,4	4,9
Zeta-value	--	Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173																	

Weights																		
	(kg)	4,4	5,4	6,3	7	10,5	13,8	21	27,5	40	61	84	160	265	377	510	780	1095
34.006 / 306	(kg)	4,8	5,4	7,1	8	11,5	13,5	23,5	28	39,5	61	84	170	283	414	557	857	1150

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).

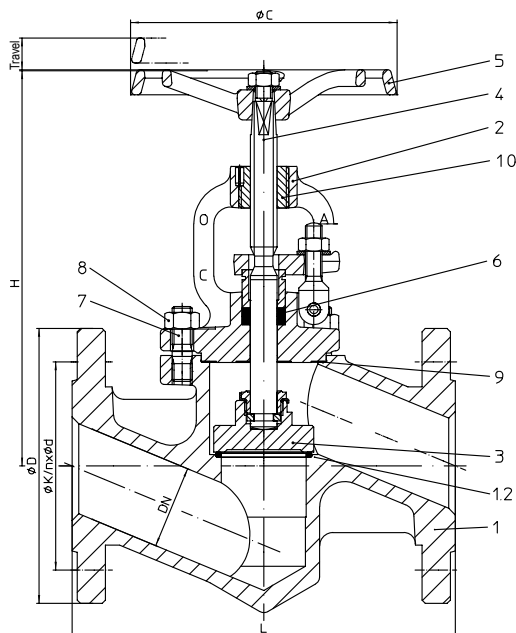
Stop valve - straight through with flanges and gland seal (Forged steel)


Figure	Nominal pressure	Material	Nominal diameter
45.006	PN40	1.0460 / 1.0619+N	DN15-50

Test:	• optional: EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 08 2016 C04 (refer to page 16)
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Considered standards:	• EN 13709 (1.0460, 1.0619+N)
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Parts			
Pos.	Sp.p.	Description	Fig. 45.006
1		Body	P250 GH, 1.0460
1.2		Seat ring	G19 9 Nb Si, 1.4551
2		Bonnet	1.0619+N
3	x	Plug	X20Cr13+QT, 1.4021+QT
4	x	Stem	X20Cr13+QT, 1.4021+QT (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
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Face-to-face dimension FTF series 1 according to DIN EN 558		Standard-flange dimensions refer to page 15					
L	(mm)	130	150	160	180	200	230

Dimensions							
H	(mm)	201	203	223	229	236	237
ØC	(mm)	120	120	140	140	160	160
Travel	(mm)	9	9	13	13	21	19
Kvs-value	(m³/h)	3,3	5,8	9,2	15	23,3	36
Zeta-value	--	7,4	7,6	7,4	7,4	7,5	7,7
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173							

Dimensions							
45.006	(kg)	4,3	5	6	7	10	13

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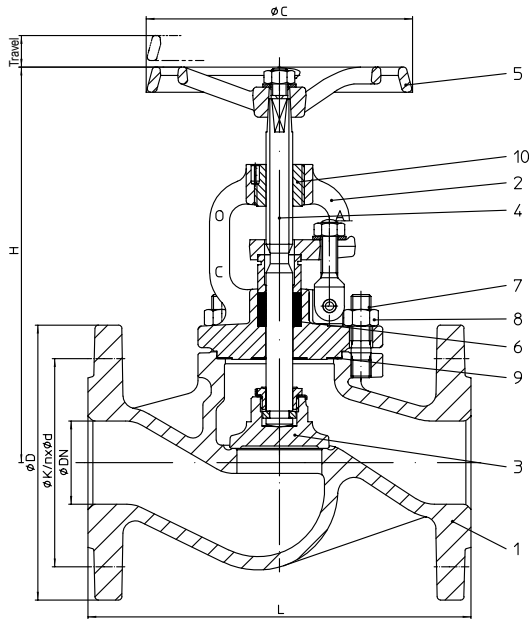
Stop valve - straight through with flanges and gland seal (Stainless steel)


Figure	Nominal pressure	Material	Nominal diameter
52.006	PN16	1.4408	DN15-200
54.006	PN25	1.4408	DN200
55.006	PN40	1.4408	DN15-150

Test:	<ul style="list-style-type: none"> optional: EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 08 2016 C04 (refer to page 16)
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Considered standards:	<ul style="list-style-type: none"> EN 13709 (1.4408)
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At high differential pressures a balancing plug is necessary!
(refer to page 13)

Parts			
Pos.	Sp.p.	Description	Fig. 52./54./55.006
1		Body	GX5CrNiMo19-11-2, 1.4408
2		Bonnet	GX5CrNiMo19-11-2, 1.4408
3	x	Plug	X6CrNiMoTi17-12-2, 1.4571
4	x	Stem	X6CrNiMoTi17-12-2, 1.4571
5		Handwheel	EN-JL1040, EN-GJL-250 (FE 13 Epoxid-coating)
6	x	Packing ring	Pure graphite
7		Stud	A4-70
8		Hexagon nut	A4
9	x	Gasket	Pure graphite (CrNi laminated with graphite)
10		Insert nuts	X5CrNiMo17-12-2, 1.4401
L Spare parts			

DN	15	20	25	32	40	50	65	80	100	125	150	200
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Face-to-face dimension FTF series 1 according to DIN EN 558											Standard-flange dimensions refer to page 15		
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	600

Dimensions													
H	(mm)	185	185	205	205	230	230	270	305	355	395	450	570
ØC	(mm)	120	120	140	140	160	160	180	200	225	250	400	520
Travel	(mm)	9	9	13	13	21	19	28	32	36	52	56	73
Kvs-value	(m³/h)	4,2	7,4	12	19	31	47	77	120	188	288	410	725
Zeta-value	--	4,6	4,7	4,3	4,6	4,3	4,5	4,8	4,5	4,5	4,7	4,8	4,9
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173													

Dimensions													
52./54./55.006	(kg)	4,8	5,4	7,1	8	11,5	13,5	23,5	28	39,5	61	84	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).

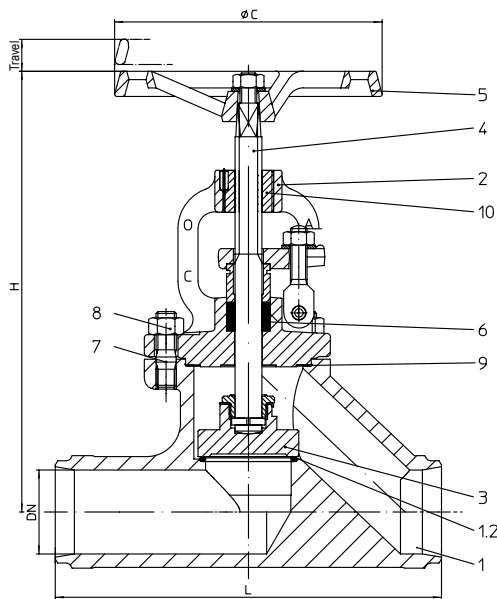
Stop valve - straight through with butt weld ends and gland seal (Forged steel)


Figure	Nominal pressure	Material	Nominal diameter
45.005	PN40	1.0460 / 1.0619+N	DN15-50
DN65-300 refer to Fig. 35.005 (1.0619+N)			

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

Test:	<ul style="list-style-type: none"> optional: EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 08 2016 C04 (refer to page 16)
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Considered standards:	<ul style="list-style-type: none"> EN 13709 (1.0460, 1.0619+N)
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Parts			
Pos.	Sp.p.	Description	Fig. 45.005
1		Body	P250 GH, 1.0460
1.2		Seat ring	G19 9 Nb Si, 1.4551
2		Bonnet	1.0619+N
3	x	Plug	X20Cr13+QT, 1.4021+QT
4	x	Stem	X20Cr13+QT, 1.4021+QT (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
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Face-to-face dimension ETE series 1 according to DIN EN 12982							
L	(mm)	130	150	160	180	200	230

Dimensions							
H	(mm)	205	205	225	230	235	235
ØC	(mm)	120	120	140	140	160	160
Travel	(mm)	9	9	13	13	21	19
Kvs-value	(m³/h)	3,3	5,8	9,2	15	23,3	36
Zeta-value	--	4,6	4,7	4,3	4,6	4,3	4,5
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173							

Weights							
45.005	(kg)	2,9	3	3,5	3,5	6,2	7,8

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).

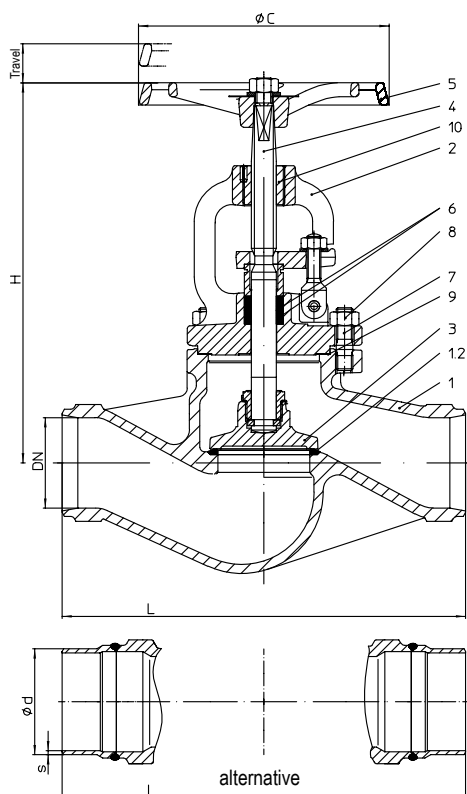
Stop valve - straight through with butt weld ends and gland seal (Cast steel)


Figure	Nominal pressure	Material	Nominal diameter
35.005	PN40	1.0619+N	DN65-300
DN15-50 refer to Fig. 45.005 (1.0460)			

Butt weld ends according to DIN EN 12627 Fig. 4 (refer to page 12)
 alternative: DN 65-200 with shoed ends of P235GH

Test: • 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!
 (refer to page 13)

Parts			
Pos.	Sp.p.	Description	Fig. 35.005
1		Body	GP240GH+N, 1.0619+N
1.2		Seat ring	G19 9 Nb Si, 1.4551
2		Bonnet	GP240GH+N, 1.0619+N
3	x	Plug	DN ≤200: X20Cr13+QT, 1.4021+QT DN >200: P265 GH, 1.0425
4	x	Stem	X20Cr13+QT, 1.4021+QT (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	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)	270	305	355	395	450	570	685	770
ØC	(mm)	180	200	225	250	400	520	520	520
Travel	(mm)	28	32	36	52	56	73	80	110
Kvs-value	(m³/h)	77	120	188	288	410	725	1145	1635
Zeta-value	--	4,8	4,5	4,5	4,7	4,8	4,9	4,8	4,8

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

Weights									
35.005	(kg)	16	21	28	45	66	143	228	345

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).

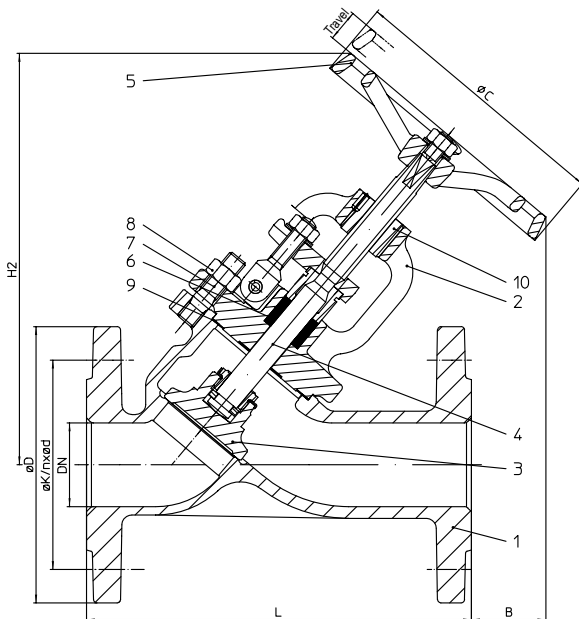
Stop valve - Y-pattern with flanges and gland seal (Stainless steel)


Figure	Nominal pressure	Material	Nominal diameter
52.009	PN16	1.4408	DN15-200
54.009	PN25	1.4408	DN15-200
55.009	PN40	1.4408	DN15-200

Test:	• optional: EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 08 2016 C04 (refer to page 16)
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Considered standards:	• EN 13709 (1.4408)
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At high differential pressures a balancing plug is necessary!
(refer to page 13)

Parts			
Pos.	Sp.p.	Description	Fig. 52./54./55.009
1		Body	GX5CrNiMo19-11-2, 1.4408
2		Bonnet	GX5CrNiMo19-11-2, 1.4408
3	x	Plug	X6CrNiMoTi17-12-2, 1.4571
4	x	Stem	X6CrNiMoTi17-12-2, 1.4571
5		Handwheel	EN-JL1040, EN-GJL-250 (FE 13 Epoxid-coating)
6	x	Packing ring	Pure graphite
7		Stud	A4-70
8		Hexagon nut	A4
9	x	Gasket	Pure graphite (CrNi laminated with graphite)
10		Insert nuts	X5CrNiMo17-12-2, 1.4401
L Spare parts			

DN	15	20	25	32	40	50	65	80	100	125	150	200
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Face-to-face dimension FTF series 1 according to DIN EN 558											Standard-flange dimensions refer to page 15		
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	600

Dimensions													
H2	(mm)	200	200	225	225	245	250	285	320	415	435	505	640
B	(mm)	80	70	85	70	70	45	30	65	75	80	75	130
ØC	(mm)	120	120	140	140	160	160	180	200	225	250	400	520
Travel	(mm)	9	9	13	13	21	19	28	32	36	52	56	73
Kvs-value	(m³/h)	5,8	8,6	13	20	42	59	90	127	205	310	445	800
Zeta-value	--	2,4	3,5	3,7	4,2	2,3	2,9	3,5	4,1	3,8	4,1	4,1	5
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173													

Weights													
52./54./55.009	(kg)	4	4,6	6	7,6	9,4	11,6	16,5	23,2	35	43	72	141

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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).

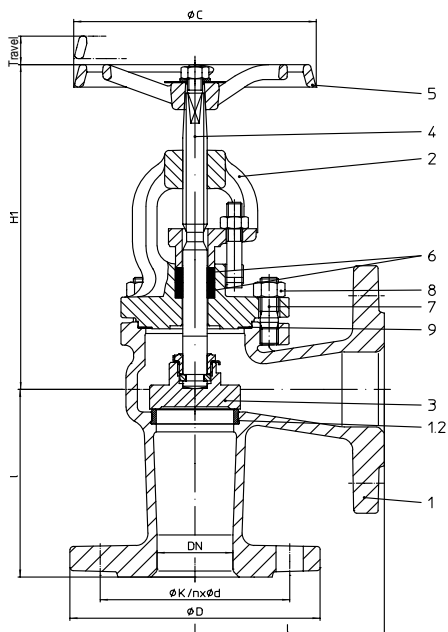
Stop valve - angle pattern with flanges and gland seal (Grey cast iron, SG iron)


Figure	Nominal pressure	Material	Nominal diameter
12.007	PN16	EN-JL1040	DN15-300
12.307	PN16	EN-JL1040	DN15-300
22.007	PN16	EN-JS1049	DN15-500
22.307	PN16	EN-JS1049	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 13789 (EN-JL1040, EN-JS1049)

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

Parts						
Pos.	Sp.p.	Description	Fig. 12.007	Fig. 12.307	Fig. 22.007	Fig. 22.307
1		Body	EN-JL1040, EN-GJL-250		EN-JS1049, EN-GJS-400-18U-LT	
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
2		Bonnet	EN-JL1040, EN-GJL-250		EN-JS1049, EN-GJS-400-18U-LT	
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	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)	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		Hexagon bolt	5.6		--	
7		Stud	--		25CrMo4, 1.7218	
8		Hexagon nut	--		C35E, 1.1181	
9	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 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																		
12.007 / 307	(kg)	3,9	4,5	5,5	6,6	9,1	11,5	17,1	22,4	32	46	67	126	184	270	--	--	--
22.007 / 307	(kg)	4	4,5	5,6	6,6	9,2	11,6	17	22,6	33	46	68	100	204	270	398	570	885

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).

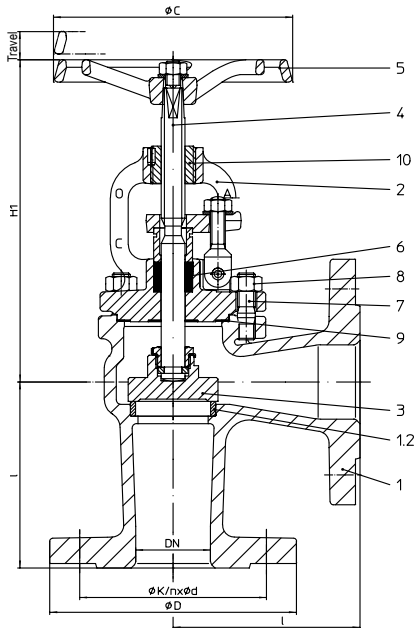
Stop valve - angle pattern with flanges and gland seal (Cast steel)


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					
Pos.	Sp.p.	Description	Fig. 34./35.007	Fig. 34./35.307	
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
----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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

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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.

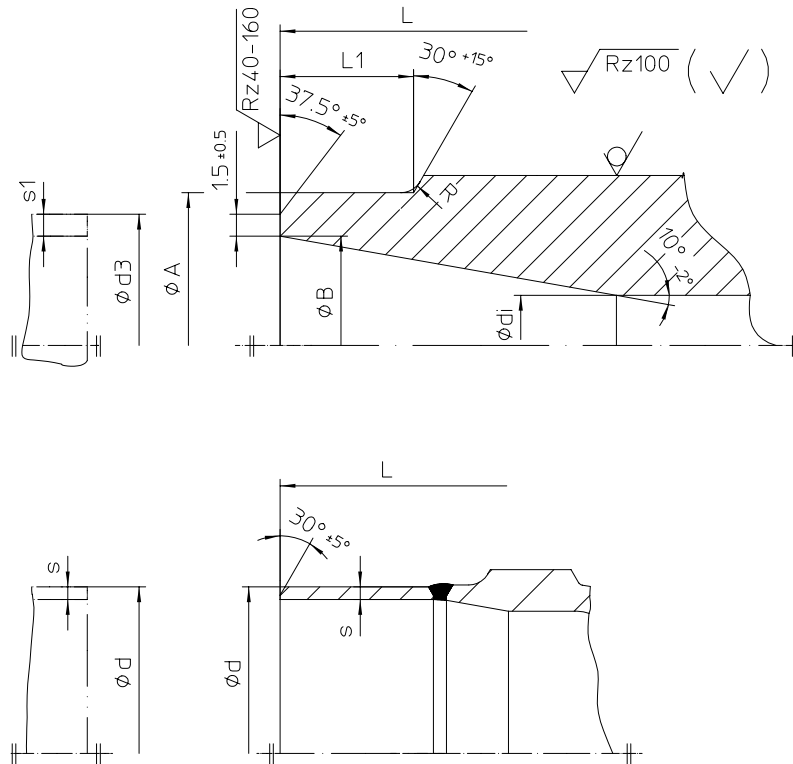
The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

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

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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 acc. 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	273,0	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 ETE series 1 according to DIN EN 12982

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,

P250GH, 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 made of P235GH (Pipe connection ≙ 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	4,0	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.

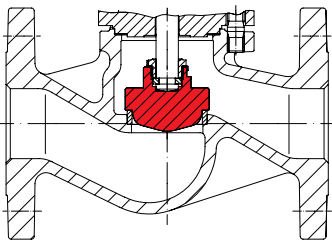
Because of the different material compositions and wall thickness of the steam traps and the pipe gas welding shall not be applied. Quenching cracks and coarse grain structure may develop.

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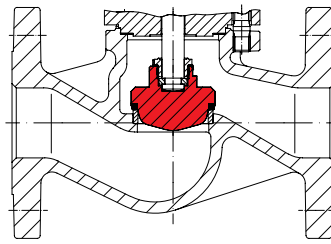
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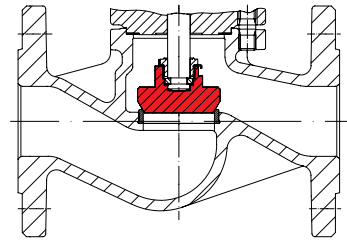
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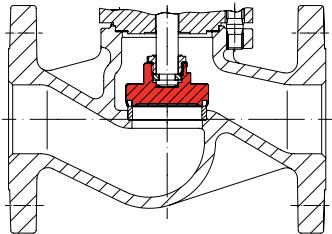
Regulating plug
(for max. permissible ΔP refer to Flow diagram)



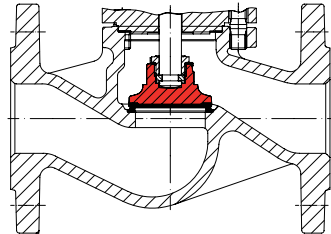
Regulating plug with soft seal
Max. operating temperature 200°C at PTFE + 25% carbon
(for max. permissible ΔP refer to Flow diagram)



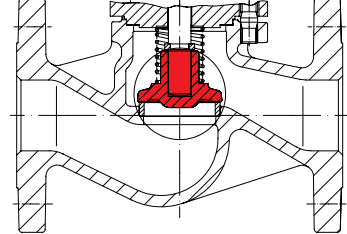
Plug with marginal seat



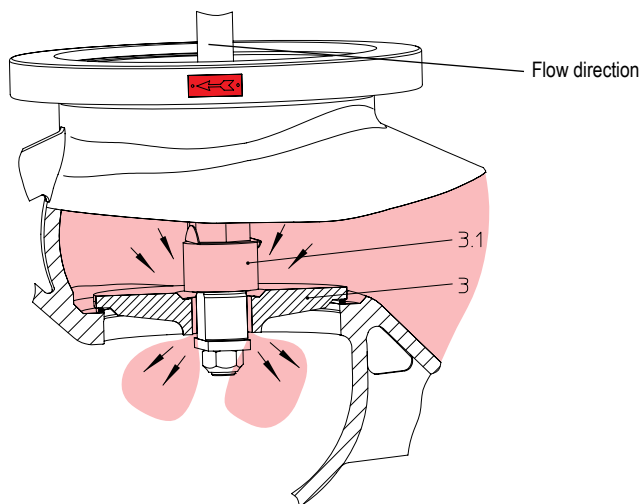
Plug with Soft seal
Max. operating temperature 200°C at PTFE + 25% carbon



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.

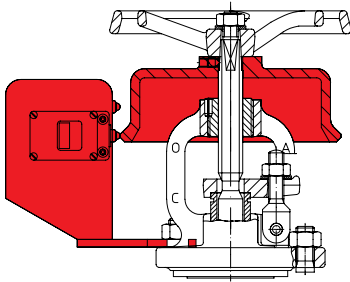
The pressures of the medium on either side of the plug can not be equalized if the medium is discharged into open air.

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.

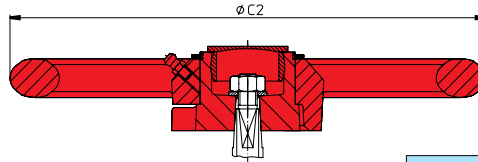
ARI-stop valves with differential pressures exceeding the following pressures, have to be fitted with pressure balancing plugs

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

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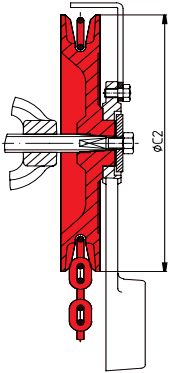


Limit switch



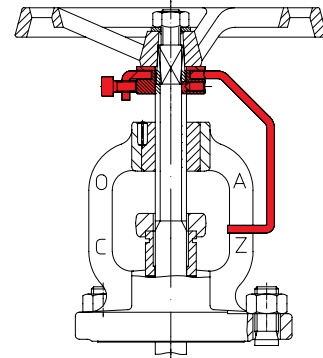
Handwheel operated by impact force

DN (mm)	ØC2 (mm)	Weight (kg)
15-32	180	1,5
40-100	250	3
125-200	365	5
250-500	520	13

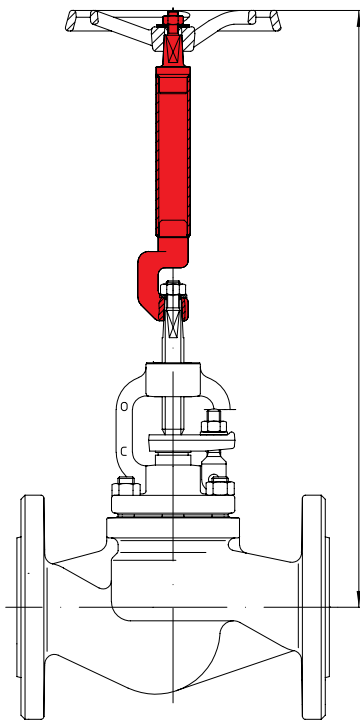


Chain wheel

DN (mm)	ØC2 (mm)	Weight (kg)
15-32	180	2,5
40-80	220	7
100-150	260	8,9
200-400	300	11

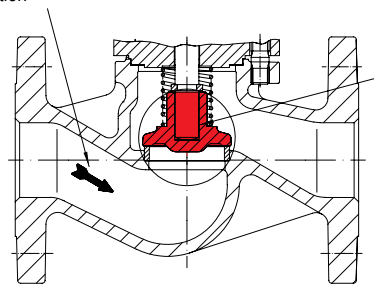


Position indicator with locking device



Stem extension (please specify height in your order)

Flow direction



Hole and stem with a precise tolerance

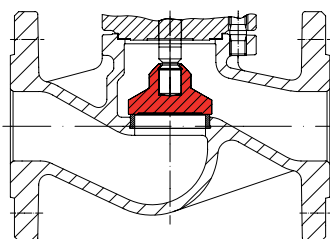
Screw down non-return plug with re-setting spring and plug damper

In special applications, like high flow turbulences, stuffing box valves with damper should be used with execution „screw down non-return plug“:

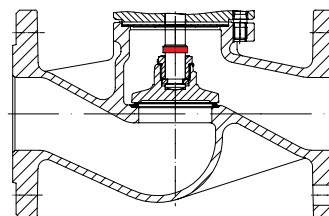
- if stuffing box valves with loose plug are mounted directly by centrifuged pumps;
- behind pressure reduction stations;
- behind pipe elbows;
- in compact plants;
- if expansion joints are missing;
- if the pump is not mounted on a damper;
- if there is no flow stabilizing pipe dimension;
- if there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

Working principle

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



DN15-50



DN ≥ 65

Back seat

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.
-------------------------------------	---

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)

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Please indicate when ordering:

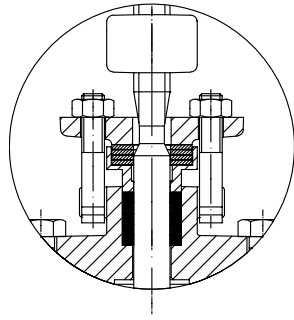
- Figure-No.
- Nominal pressure
- Nominal diameter
- Special design / accessories

Example:

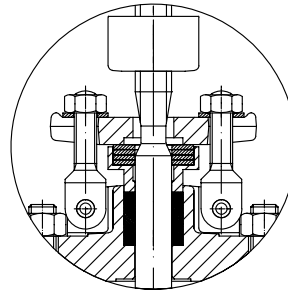
Figure 35.006; Nominal pressure PN40; Nominal diameter DN100; with regulating plug, position indicator with locking device.

Test: DN15-300 optional
EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 08 2016 C04

with spring-loaded stuffing box



Grey cast iron, SG iron



Cast steel, Forged steel, Stainless steel

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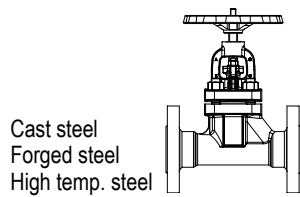


Technology for the Future.
GERMAN QUALITY VALVES

Stop valve with gland seal - metallic sealing
 DN 10 - 100

ARI-STOBU® -
Straight through with flanges

- Rising handwheel
- TRB 801 Annex II No. 45



Cast steel
 Forged steel
 High temp. steel

Fig. 006

Page 2

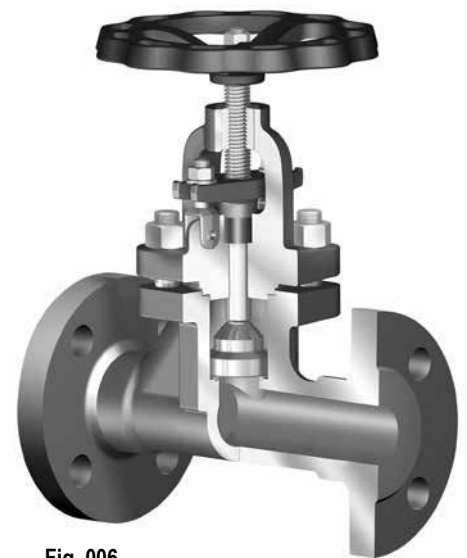
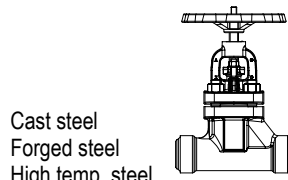


Fig. 006

ARI-STOBU® -
Straight through with butt weld ends

- Rising handwheel
- TRB 801 Annex II No. 45



Cast steel
 Forged steel
 High temp. steel

Fig. 005

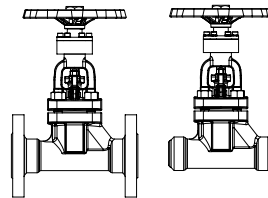
Page 4



Fig. 005

ARI-STOBU® -

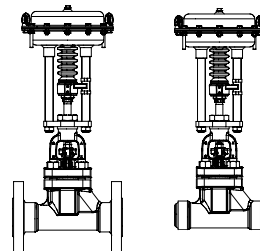
- Option: non-rising handwheel



Page 6

ARI-STOBU® -
Pneumatic actuator
ARI-DP 32-34

- Reversible pneumatic actuator
- Actuator with rolling diaphragm
- Air supply pressure max. 6 bar
- Stem protection by bellow
- Maintenance-free O-ring sealing

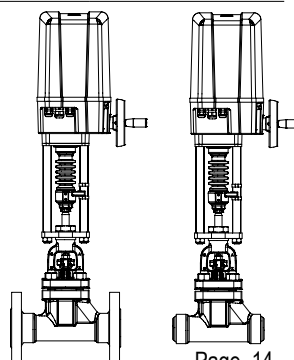


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ARI-STOBU® -
Electric actuator
ARI-PREMIO 5-15 kN
ARI-PREMIO-Plus 2G 5-15kN

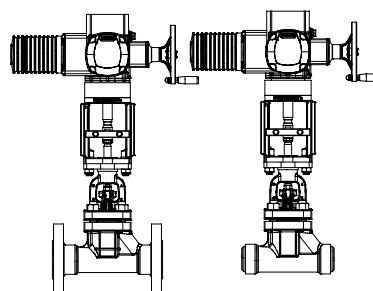
- Enclosure IP 65
- 2 torque switches
- Handwheel
- Additional devices available, e.g. potentiometer



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ARI-STOBU® -
Electric actuator
AUMA SA 07.6-10.2

- Electric multiturn actuator, capable of high closing pressures
- Enclosure IP 67
- 2 torque switches
- 2 travel switches
- Handwheel
- Overheating protection for motor as standard
- Additional devices available, e.g. potentiometer



Page 16

Features:

- Proven technology
- Plug hardened/stellited
- Seat stellitert
- Stem with roll hardened thread
- Burnished stem
- High-tensile gland packing
- Bonnet top with threaded bushing
- Pivot mounted bolts
- DN 10-50: Back seat (for DN65-100 optional)
- Bonnet sealing inside and outside chambered

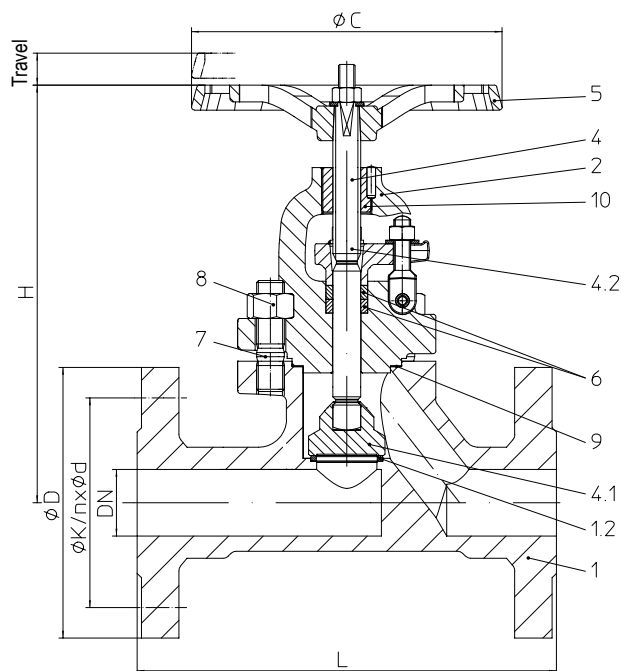
Stop valve - straight through with flanges and gland seal (Forged steel, High temperature steel)


Figure	Nominal pressure	Material	Nominal diameter
48.006...40	PN63-160	1.0460	DN10-40
46.006...40	PN63	1.0460	DN50
48.006...40	PN100-160	1.0460	DN50
88.006...81	PN63-160	1.7335	DN10-40
86.006...81	PN63	1.7335	DN50
88.006...81	PN100-160	1.7335	DN50

Larger nominal diameters refer to page 3.

Options: non-rising handwheel (refer to page 6)

Parts				
Pos.	Sp.p.	Description	Fig. 46./48.006...40	Fig. 86./88.006...81
1		Body	P250 GH, 1.0460	13CrMo4-5, 1.7335
1.2		Seat	Stellit 21	
2		Bonnet	P250 GH, 1.0460	13CrMo4-5, 1.7335
4	x (unit)	Spindle unit		
4.1		Plug	X20Cr13+QT, 1.4021+QT (hardened)	13CrMo4-5, 1.7335 / Stellit 6
4.2		Stem	X20Cr13+QT, 1.4021+QT (burnished)	X39CrMo17-1+QT, 1.4122+QT (burnished)
5		Handwheel	EN-GJS-400-15, EN-JS1030 (FE 13 epoxy-coating)	
6	x	Packing ring	Pure graphite	
7		Stud	21CrMoV 5-7, 1.7709	
8		Hexagon nut	21CrMoV 5-7, 1.7709	
9	x	Gasket	Pure graphite (CrNi laminated with graphite)	
10		Insert nuts	11SMn30+C, 1.0715+C (nitrated)	
L Spare parts				

DN	10	15	20	25	32	40	50
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Face-to-face dimension FTF serie 2 acc. to DIN EN 558		Standard-flange dimensions refer to page 19						
L	(mm)	210	210	230	230	260	260	300

Dimensions								
H	(mm)	228	228	228	228	292	292	300
ØC	(mm)	180	180	180	180	225	225	225
Travel	(mm)	11	11	11	11	17	17	21
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./86.006	(kg)	--	--	--	--	--	--	26
48./88.006	(kg)	8,7	8,9	10,5	11,5	19	21	27

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)

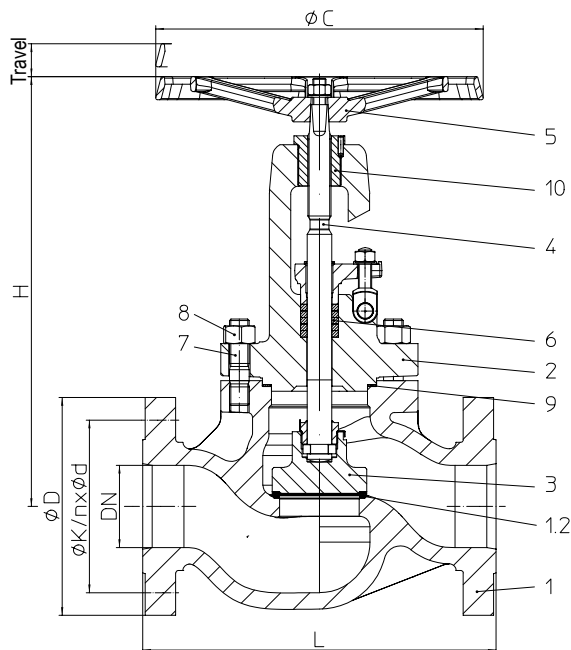
Stop valve - straight through with flanges and gland seal (Cast steel, High temperature cast steel)


Figure	Nominal pressure	Material	Nominal diameter
36.006...30	PN63	1.0619+N	DN65-100
37.006...30	PN100	1.0619+N	DN65-100
38.006...30	PN160	1.0619+N	DN65-100

86.006...89	PN63	1.7357	DN65-100
87.006...89	PN100	1.7357	DN65-100
88.006...89	PN160	1.7357	DN65-100

DN125-150 on request.
Smaller nominal diameters refer to page 2.

At high differential pressures a balancing plug is necessary! (refer to page 22)

Options: non-rising handwheel (refer to page 7)

Parts				
Pos.	Sp.p.	Description	Fig. 36./37./38.006...30	Fig. 86./87./88.006...89
1		Body	GP240GH+N, 1.0619+N	G17CrMo5-5, 1.7357
1.2		Seat	Stellit 21	
2		Bonnet	GP240GH+N, 1.0619+N	G17CrMo5-5, 1.7357
3	x	Plug	P250 GH, 1.0460 / Stellit 6	13CrMo4-5, 1.7335 / Stellit 6
4	x	Stem	X39CrMo17-1+QT, 1.4122+QT (burnished)	
5		Handwheel	EN-GJS-400-15, EN-JS1030 (FE 13 epoxy-coating)	
6	x	Packing unit	Pure graphite	
7		Stud	21CrMoV 5-7, 1.7709	
8		Hexagon nut	21CrMoV 5-7, 1.7709	
9	x	Gasket	Pure graphite (with Cr-Ni-grooved)	
10		Insert nuts	CuZn35Ni3Mn2AlPb-R490, CW710R-R490	
L Spare parts				

DN	65	80	100	125	150
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Face-to-face dimension FTF serie 2 acc. to DIN EN 558					Standard-flange dimensions refer to page 19	
L	(mm)	340	380	430	on request	

Dimensions						
H	(mm)	470	492	523	on request	
ØC	(mm)	400	400	400		
Travel	(mm)	27	32	39		
Kvs-value	(m³/h)	71	122	162		
Zeta-value	--	5,65	4,39	6,08		
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173						

Weights						
36./86.006	(kg)	54	73	95	on request	
37./38.006	(kg)	64	85	111		
86./87.006	(kg)					

Smaller nominal diameters refer to page 2.

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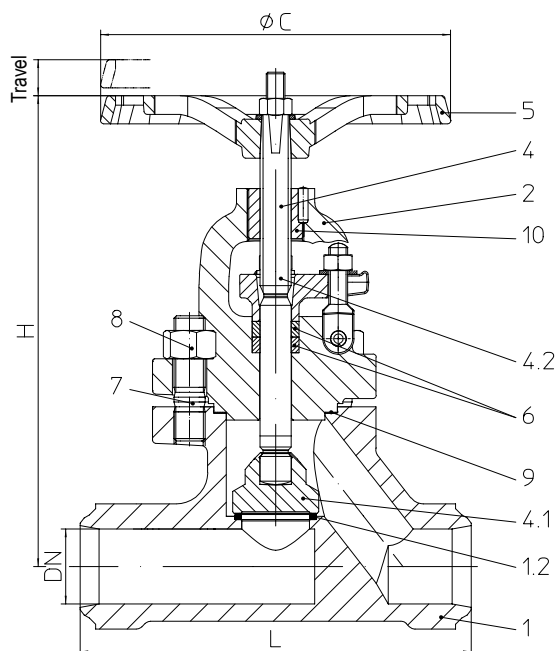
Stop valve - straight through with butt weld ends and gland seal (Forged steel, High temperature steel)


Figure	Nominal pressure	Material	Nominal diameter
46.005...40	PN63	1.0460	DN10-50
47.005...40	PN100	1.0460	DN10-50
48.005...40	PN160	1.0460	DN10-50

86.005...80	PN63	1.5415	DN10-50
87.005...80	PN100	1.5415	DN10-50
88.005...80	PN160	1.5415	DN10-50
86.005...81	PN63	1.7335	DN10-50
87.005...81	PN100	1.7335	DN10-50
88.005...81	PN160	1.7335	DN10-50

Larger nominal diameters refer to page 5.

Butt weld ends according to DIN EN 12627 (refer to page 19)
Options: non-rising handwheel (refer to page 8)

Parts					
Pos.	Sp.p.	Description	Fig. 46./47./48.005...40	Fig. 86./87./88.005...80	Fig. 86./87./88.005...81
1		Body	P250 GH, 1.0460	16Mo3, 1.5415	13CrMo4-5, 1.7335
1.2		Seat	Stellit 21		
2		Bonnet	P250 GH, 1.0460	16Mo3, 1.5415	13CrMo4-5, 1.7335
4	x (unit)	Spindle unit			
4.1		Plug	X20Cr13+QT, 1.4021+QT hardened)	13CrMo4-5, 1.7335 / Stellit 6	
4.2		Stem	X20Cr13+QT, 1.4021+QT burnished)	X39CrMo17-1+QT, 1.4122+QT (burnished)	
5		Handwheel	EN-GJS-400-15, EN-JS1030 (FE 13 epoxy-coating)		
6	x	Packing ring	Pure graphite		
7		Stud	21CrMoV 5-7, 1.7709		
8		Hexagon nut	21CrMoV 5-7, 1.7709		
9	x	Gasket	Pure graphite (CrNi laminated with graphite)		
10		Insert nuts	11SMn30+C, 1.0715+C (nitrated)		
L Spare parts					

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

Face-to-face dimension ETE serie 65 acc. to DIN EN 12982								
L	(mm)	150	150	150	160	180	210	250

Dimensions								
H	(mm)	228	228	228	228	292	292	300
ØC	(mm)	180	180	180	180	225	225	225
Travel	(mm)	11	11	11	11	17	17	21
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								
46./47./48.005	(kg)	6,5	6,5	6,5	6,6	13,2	13,2	16,2
86./87./88.005								
Larger nominal diameters refer to page 5.								

Information / restriction of technical rules need to be observed!

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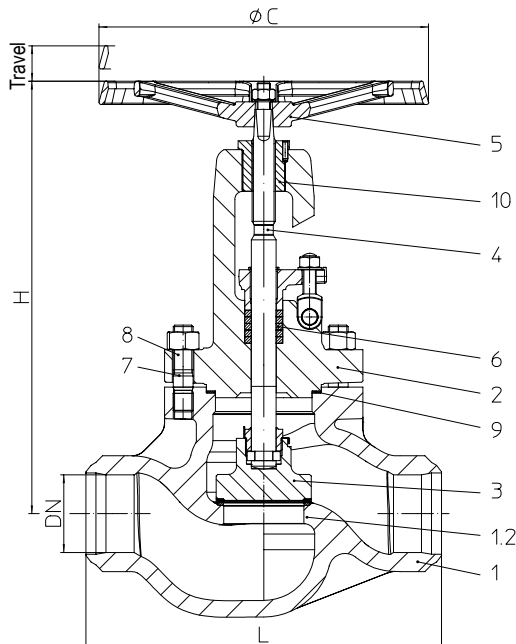
Stop valve - straight through with butt weld ends and gland seal (Cast steel, High temperature cast steel)


Figure	Nominal pressure	Material	Nominal diameter
36.005...30	PN63	1.0619+N	DN65-100
37.005...30	PN100	1.0619+N	DN65-100
38.005...30	PN160	1.0619+N	DN65-100

86.005...89	PN63	1.7357	DN65-100
87.005...89	PN100	1.7357	DN65-100
88.005...89	PN160	1.7357	DN65-100

DN125-150 on request.
Smaller nominal diameters refer to page 4.

Butt weld ends according to DIN EN 12627 (refer to page 19)

At high differential pressures a balancing plug is necessary! (refer to page 22)

Options: non-rising handwheel (refer to page 9)

Parts				
Pos.	Sp.p.	Description	Fig. 36./37./38.005...30	Fig. 86./87./88.005...89
1		Body	GP240GH+N, 1.0619+N	G17CrMo5-5, 1.7357
1.2		Seat	Stellit 21	
2		Bonnet	GP240GH+N, 1.0619+N	G17CrMo5-5, 1.7357
3	x	Plug	P250 GH, 1.0460 / Stellit 6	13CrMo4-5, 1.7335 / Stellit 6
4	x	Stem	X39CrMo17-1+QT, 1.4122+QT (burnished)	
5		Handwheel	EN-GJS-400-15, EN-JS1030 (FE 13 epoxy-coating)	
6	x	Packing unit	Pure graphite	
7		Stud	21CrMoV 5-7, 1.7709	
8		Hexagon nut	21CrMoV 5-7, 1.7709	
9	x	Gasket	Pure graphite (with Cr-Ni-grooved)	
10		Insert nuts	CuZn35Ni3Mn2AlPb-R490, CW710R-R490	
L Spare parts				

DN	65	80	100	125	150
----	----	----	-----	-----	-----

Face-to-face dimension ETE serie 65 acc. to DIN EN 12982					
L	(mm)	340	380	430	on request

Dimensions					
H	(mm)	470	492	523	on request
ØC	(mm)	400	400	400	
Travel	(mm)	27	32	39	
Kvs-value	(m³/h)	71	122	162	
Zeta-value	--	5,65	4,39	6,08	
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173					

Weights					
36./37./38.005 86./87./88.005	(kg)	50	71	91	on request
Smaller nominal diameters refer to page 4.					

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

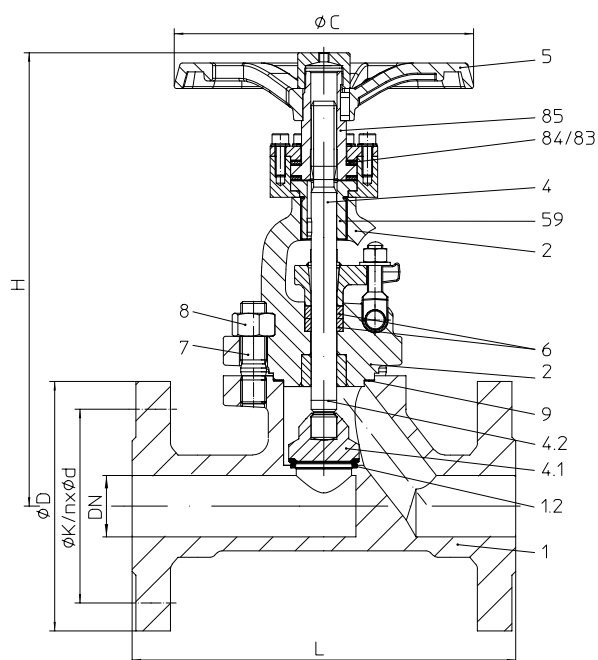
Stop valve - straight through with flanges and gland seal (Forged steel, High temperature steel)


Figure	Nominal pressure	Material	Nominal diameter
48.006...40...1	PN63-160	1.0460	DN10-40
46.006...40...1	PN63	1.0460	DN50
48.006...40...1	PN100-160	1.0460	DN50

88.006...81...1	PN63-160	1.7335	DN10-40
86.006...81...1	PN63	1.7335	DN50
88.006...81...1	PN100-160	1.7335	DN50

Larger nominal diameters refer to page 7.

Easy conversion to connection F10 acc. to ISO 5210 group (lock bush) B1

Parts				
Pos.	Sp.p.	Description	Fig. 46./48.006...40...1	Fig. 86./88.006...81...1
1		Body	P250 GH, 1.0460	13CrMo4-5, 1.7335
1.2		Seat	Stellit 21	
2		Bonnet	13CrMo4-5, 1.7335	
4		Spindle unit		
4.1	x (unit)	Plug	X20Cr13+QT, 1.4021+QT (hardened)	13CrMo4-5, 1.7335 / Stellit 6
4.2		Stem	X20Cr13+QT, 1.4021+QT (burnished)	X39CrMo17-1+QT, 1.4122+QT (burnished)
5		Handwheel	EN-GJL-250, EN-JL1040 (FE 13 epoxy-coating)	
6	x	Packing ring	Pure graphite	
7		Stud	21CrMoV 5-7, 1.7709	
8		Hexagon nut	21CrMoV 5-7, 1.7709	
9	x	Gasket	Pure graphite (CrNi laminated with graphite)	
59		Screw joint	11SMn30+C, 1.0715+C (nitrated)	
83 / 84		Nadellager	St	
85		Insert nuts	11SMn30+C, 1.0715+C (nitrated)	
		L Spare parts		

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

Face-to-face dimension FTF serie 2 acc. to DIN EN 558 Standard-flange dimensions refer to page 19

L	(mm)	210	210	230	230	260	260	300
---	------	-----	-----	-----	-----	-----	-----	-----

Dimensions								
H	(mm)	273	273	273	273	334	334	347
ØC	(mm)	180	180	180	180	225	225	225
Travel	(mm)	11	11	11	11	17	17	21
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./86.006 ...1	(kg)	--	--	--	--	--	--	29
48./88.006 ...1	(kg)	10,7	10,9	12,5	13,5	22	24	30

Larger nominal diameters refer to page 7.

Information / restriction of technical rules need to be observed!

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

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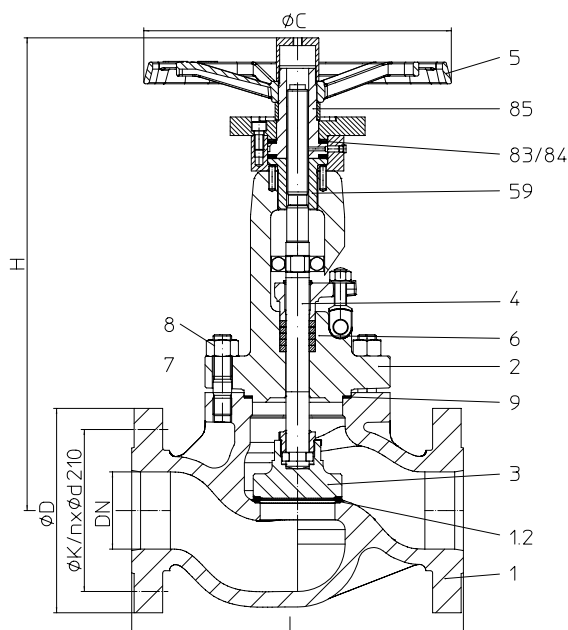
Stop valve - straight through with flanges and gland seal (Forged steel, High temperature steel)


Figure	Nominal pressure	Material	Nominal diameter
36.006...30...1	PN63	1.0619+N	DN65-100
37.006...30...1	PN100	1.0619+N	DN65-100
38.006...30...1	PN160	1.0619+N	DN65-100

86.006...89...1	PN63	1.7357	DN65-100
87.006...89...1	PN100	1.7357	DN65-100
88.006...89...1	PN160	1.7357	DN65-100

DN125-150 on request.
Smaller nominal diameters refer to page 6.

At high differential pressures a balancing plug is necessary! (refer to page 22)

Parts				
Pos.	Sp.p.	Description	Fig. 36./37./38.006...30...1	Fig. 86./87./88.006...89...1
1		Body	GP240GH+N, 1.0619+N	G17CrMo5-5, 1.7357
1.2		Seat	Stellit 21	
2		Bonnet	GP240GH+N, 1.0619+N	G17CrMo5-5, 1.7357
3	x	Plug	P250 GH, 1.0460 / Stellit 6	13CrMo4-5, 1.7335 / Stellit 6
4	x	Stem	X39CrMo17-1+QT, 1.4122+QT (burnished)	
5		Handwheel	EN-GJL-250, EN-JL1040 (FE 13 epoxy-coating)	
6	x	Packing ring	Pure graphite	
7		Stud	21CrMoV 5-7, 1.7709	
8		Hexagon nut	21CrMoV 5-7, 1.7709	
9	x	Gasket	Pure graphite (with Cr-Ni-grooved)	
59		Screw joint	P250 GH, 1.0460	
83 / 84		Nadellager	St	
85	x	Insert nuts	CuZn35Ni3Mn2AlPb-R490, CW710R-R490	
L Spare parts				

DN	65	80	100	125	150
----	----	----	-----	-----	-----

Face-to-face dimension FTF serie 2 acc. to DIN EN 558					Standard-flange dimensions refer to page 19
L	(mm)	340	380	430	on request

Dimensions					
H	(mm)	562	584	613	on request
ØC	(mm)	400	400	400	
Travel	(mm)	27	32	39	
Kvs-value	(m³/h)	71	122	162	
Zeta-value	--	5,65	4,39	6,08	

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

Weights					
36./86.006	(kg)	65	84	106	on request
37./38.006					
87./88.006	(kg)	75	96	122	

Smaller nominal diameters refer to page 6.

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)

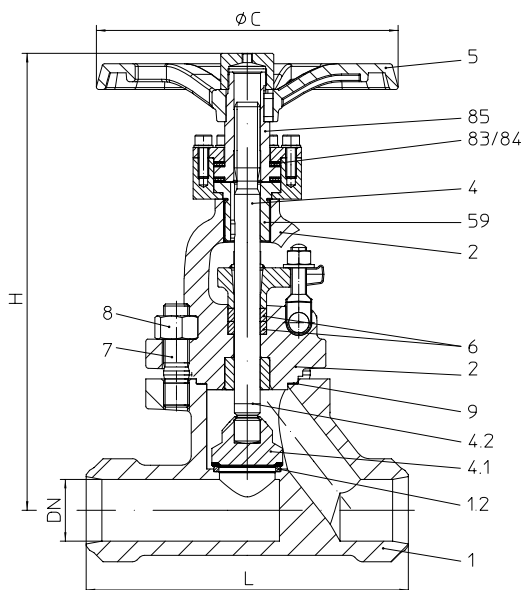
Stop valve - straight through with butt weld ends and gland seal (Forged steel, High temperature steel)


Figure	Nominal pressure	Material	Nominal diameter
46.005...40...1	PN63	1.0460	DN10-50
47.005...40...1	PN100	1.0460	DN10-50
48.005...40...1	PN160	1.0460	DN10-50

86.005...80...1	PN63	1.5415	DN10-50
87.005...80...1	PN100	1.5415	DN10-50
88.005...80...1	PN160	1.5415	DN10-50
86.005...81...1	PN63	1.7335	DN10-50
87.005...81...1	PN100	1.7335	DN10-50
88.005...81...1	PN160	1.7335	DN10-50

Larger nominal diameters refer to page 9.

Butt weld ends according to DIN EN 12627 (refer to page 19)
Easy conversion to connection F10 acc. to ISO 5210 group (lock bush) B1

Parts				
Pos.	Sp.p.	Description	Fig. 48.005...40...1	Fig. 88.005...80...1
1		Body	P250 GH, 1.0460	16Mo3, 1.5415
1.2		Seat	Stellit 21	
2		Bonnet	13CrMo4-5, 1.7335	
4		Spindle unit		
4.1	x (unit)	Plug	X20Cr13+QT, 1.4021+QT hardened)	13CrMo4-5, 1.7335 / Stellit 6
4.2		Stem	X20Cr13+QT, 1.4021+QT burnished)	X39CrMo17-1+QT, 1.4122+QT (burnished)
5		Handwheel	EN-GJL-250, EN-JL1040 (FE 13 epoxy-coating)	
6	x	Packing ring	Pure graphite	
7		Stud	21CrMoV 5-7, 1.7709	
8		Hexagon nut	21CrMoV 5-7, 1.7709	
9	x	Gasket	Pure graphite (CrNi laminated with graphite)	
59		Screw joint	11SMn30+C, 1.0715+C (nitrated)	
83 / 84		Nadellager	St	
85		Insert nuts	11SMn30+C, 1.0715+C (nitrated)	
		L Spare parts		

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

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

L	(mm)	150	150	150	160	180	210	250
---	------	-----	-----	-----	-----	-----	-----	-----

Dimensions

	(mm)	273	273	273	273	334	334	347
H	(mm)	180	180	180	180	225	225	225
ØC	(mm)	11	11	11	11	17	17	21
Travel	(mm)	2,7	4,2	6,4	8,6	21,8	24,2	33
Kvs-value	(m³/h)	--	2,19	4,58	6,24	8,43	3,52	6,89
Zeta-value	--							9,16

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

Weights

48.005 / 88.005...1	(kg)	8,5	8,5	8,5	8,5	16,2	16,2	19,2
---------------------	------	-----	-----	-----	-----	------	------	------

Larger nominal diameters refer to page 9.

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

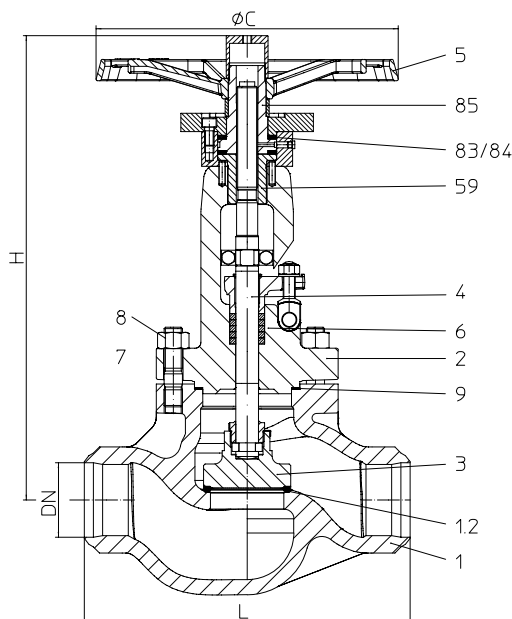
Stop valve - straight through with butt weld ends and gland seal (Forged steel, High temperature steel)


Figure	Nominal pressure	Material	Nominal diameter
36.005...30...1	PN63	1.0619+N	DN65-100
37.005...30...1	PN100	1.0619+N	DN65-100
38.005...30...1	PN160	1.0619+N	DN65-100

86.005...89...1	PN63	1.7357	DN65-100
87.005...89...1	PN100	1.7357	DN65-100
88.005...89...1	PN160	1.7357	DN65-100

DN125-150 on request.
Smaller nominal diameters refer to page 8.

Butt weld ends according to DIN EN 12627 (refer to page 19)

At high differential pressures a balancing plug is necessary! (refer to page 22)

Parts				
Pos.	Sp.p.	Description	Fig. 36./37./38.005...30...1	Fig. 86./87./88.005...89...1
1		Body	GP240GH+N, 1.0619+N	G17CrMo5-5, 1.7357
1.2		Seat	Stellit 21	
2		Bonnet	GP240GH+N, 1.0619+N	G17CrMo5-5, 1.7357
3	x	Plug	P250 GH, 1.0460 / Stellit 6	13CrMo4-5, 1.7335 / Stellit 6
4	x	Stem	X39CrMo17-1+QT, 1.4122+QT (burnished)	
5		Handwheel	EN-GJL-400-15, EN-JL1040 (FE 13 epoxy-coating)	
6	x	Packing ring	Pure graphite	
7		Stud	21CrMoV 5-7, 1.7709	
8		Hexagon nut	21CrMoV 5-7, 1.7709	
9	x	Gasket	Pure graphite (with Cr-Ni-grooved)	
59		Screw joint	P250 GH, 1.0460	
83 / 84		Nadellager	St	
85	x	Insert nuts	CuZn35Ni3Mn2AlPb-R490, CW710R-R490	
L Spare parts				

DN	65	80	100	125	150
----	----	----	-----	-----	-----

Face-to-face dimension ETE serie 65 acc. to DIN EN 12982					
L	(mm)	340	380	430	on request

Dimensions					
H	(mm)	562	584	613	on request
ØC	(mm)	400	400	400	
Travel	(mm)	27	32	39	
Kvs-value	(m³/h)	71	122	162	
Zeta-value	--	5,65	4,39	6,08	
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173					

Weights					
36./37./38.005	(kg)	61	82	102	on request
86./87./88.005					
Smaller nominal diameters refer to page 8.					

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)

Stop valve in straightway form with gland packing with pneumatic actuator ARI-DP

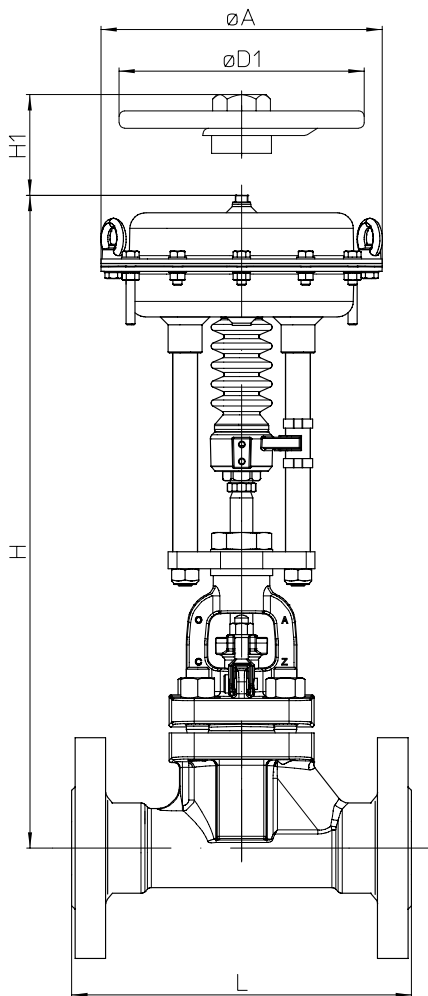


Fig. 006

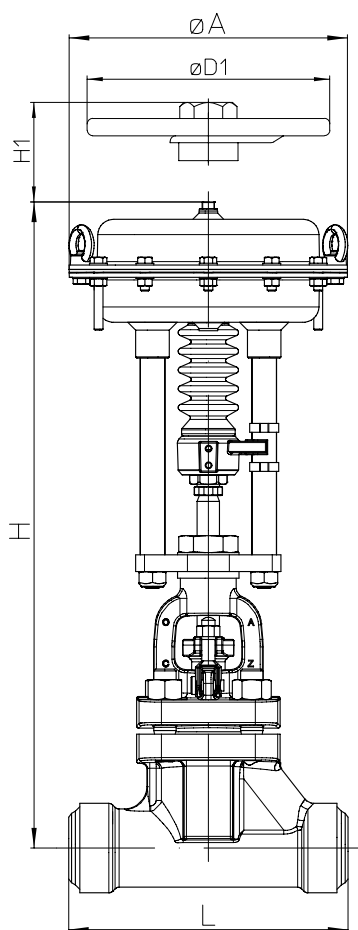


Fig. 005

Actuator data		DP32	DP33	DP34
Ø A	(mm)	250	300	405
Eff. diaphragm area	(cm ²)	250	400	800
Ø D1	(mm)	225	300	400
H1	(mm)	270	284	442
Weight	(kg)	5		17
Technical data and accessories of actuators: refer to ARI-DP data sheet				

Heights and weights

Technical data and accessories of actuators: refer to actuator data sheet

DN				10	15	20	25	32	40	50	65	80	100	125	150
DP32	Fig. 006	H	(mm)	515	515	515	515	--	--	--	--	--	--	--	--
		PN63-160	(kg)	18	18,2	19,8	20,8	--	--	--	--	--	--	--	--
	Fig. 005	H	(mm)	515	515	515	515	--	--	--	--	--	--	--	--
		PN63-160	(kg)	15,7	15,7	15,7	15,9	--	--	--	--	--	--	--	--
DP33	Fig. 006	H	(mm)	568	568	568	568	629	629	642	--	--	--	--	--
		PN63-160	(kg)	24	24,2	25,8	26,8	35	37	42,5	--	--	--	--	--
	Fig. 005	H	(mm)	568	568	568	568	629	629	642	--	--	--	--	--
		PN63-160	(kg)	21,7	21,7	21,7	21,9	29,2	29,2	31,7	--	--	--	--	--
DP34	Fig. 006	H	(mm)	--	--	--	--	738	738	751	on request				
		PN63-160	(kg)	--	--	--	--	65	67	72,5					
	Fig. 005	H	(mm)	--	--	--	--	738	738	751					
		PN63-160	(kg)	--	--	--	--	59,2	59,2	61,7					


Fig. 006: Face-to-face dimension FTF serie 2 acc. to DIN EN 558


Standard-flange dimensions refer to page 19

Fig. 005: Face-to-face dimension ETE serie 65 acc. to DIN EN 12982

Valves with butt weld ends refer to page 19

max. permissible closing pressures on flow-to-open P2 = 0.
 Observe restrictions by Pressure-temperature-ratings, refer to page 20.

DN					10	15	20	25
Kvs-value				(m ³ /h)	2,7	4,2	6,4	8,6
max. differential press. ¹⁾				(bar)	2	2	2	2
Travel				(mm)	11	11	11	11
DP32 250 cm² Spring closes on air failure  (Extended stem on air failure)	Spring range (bar)	2-3,3	4,5	(bar)	40	40	40	40
		Air supply pressure min. (bar) ²⁾						

DN					10	15	20	25
Kvs-value				(m ³ /h)	2,7	4,2	6,4	8,6
max. differential press. ¹⁾				(bar)	2	2	2	2
Travel				(mm)	11	11	11	11
DP32 250 cm² Spring opens on air failure  (Retracted stem on air failure)	Air supply pressure min. (bar) ²⁾	4,5	(bar)	40	40	40	40	
		6	(bar)	60	60	60	60	


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
¹⁾ Max. differential pressure drop at flow

²⁾ max. permissible operating pressure: 6 bar

max. permissible closing pressures on flow-to-open P2 = 0.

Observe restrictions by Pressure-temperature-ratings, refer to page 20.

DN		10	15	20	25	32	40	50				
Kvs-value	(m ³ /h)	2,7	4,2	6,4	8,6	21,8	24,2	33				
max. differential press. ¹⁾	(bar)	2	2	2	2	2	2	2				
Travel	(mm)	11	11	11	11	17	17	21				
DP33 400 cm² Spring closes on air failure  (Extended stem on air failure)	Spring range (bar)	2,3-3,7		4,5	(bar)	60	60	60	60	25	25	20
	Air supply pressure min. (bar) ²⁾	4,5										


DN		10	15	20	25	32	40	50		
Kvs-value	(m ³ /h)	2,7	4,2	6,4	8,6	21,8	24,2	33		
max. differential press. ¹⁾	(bar)	2	2	2	2	2	2	2		
Travel	(mm)	11	11	11	11	17	17	21		
DP33 400 cm² Spring opens on air failure  (Retracted stem on air failure)	Air supply pressure min. (bar) ²⁾	4,5	(bar)	60	60	60	60	25	25	20
		6	(bar)	80	80	80	80	80	40	40


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¹⁾ Max. differential pressure drop at flow

²⁾ max. permissible operating pressure: 6 bar

max. permissible closing pressures on flow-to-open P2 = 0.
 Observe restrictions by Pressure-temperature-ratings, refer to page 20.

DN				32	40	50	65	80	100	125	150	
Kvs-value				(m ³ /h)	21,8	24,2	33	on request				
max. differential press. ¹⁾				(bar)	2	2	2					
Travel				(mm)	17	17	21					
DP34 800 cm² Spring closes on air failure  (Extended stem on air failure)	Spring range (bar)	2,4-3,6	Air supply pressure min. (bar) ²⁾	4,5	(bar)	60	60					
						60	60	50				

DN				32	40	50	65	80	100	125	150	
Kvs-value				(m ³ /h)	21,8	24,2	33	on request				
max. differential press. ¹⁾				(bar)	2	2	2					
Travel				(mm)	17	17	21					
DP34 800 cm² Spring opens on air failure  (Retracted stem on air failure)	Air supply pressure min. (bar) ²⁾	4,5	(bar)	65	65	60						
		6	(bar)	80	80	70						

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¹⁾ Max. differential pressure drop at flow

²⁾ max. permissible operating pressure: 6 bar

Stop valve in straightway form with gland packing with electric actuator ARI-PREMIO / PREMIO-Plus 2G

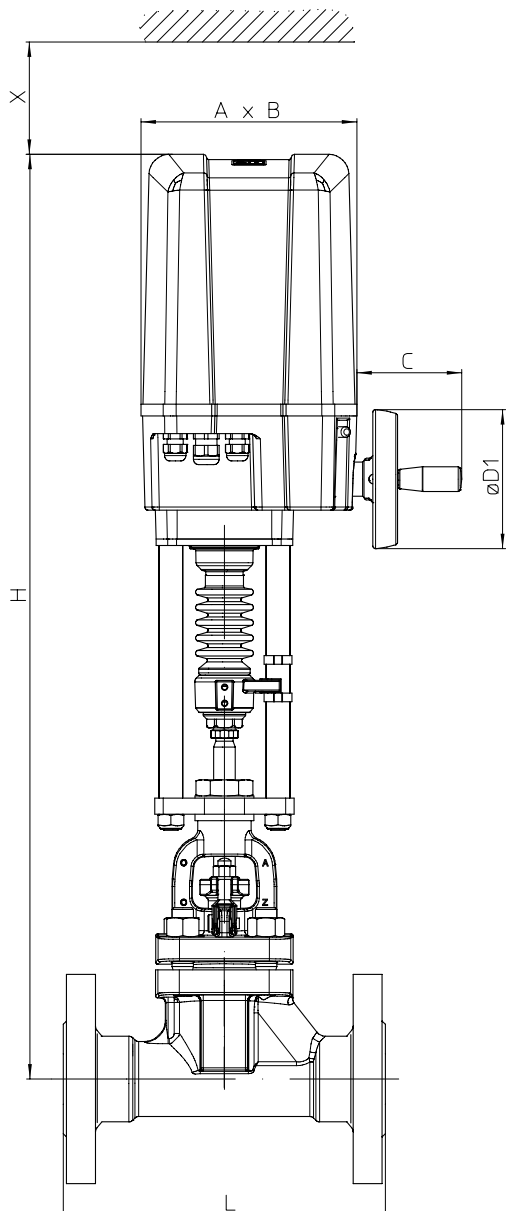


Fig. 006

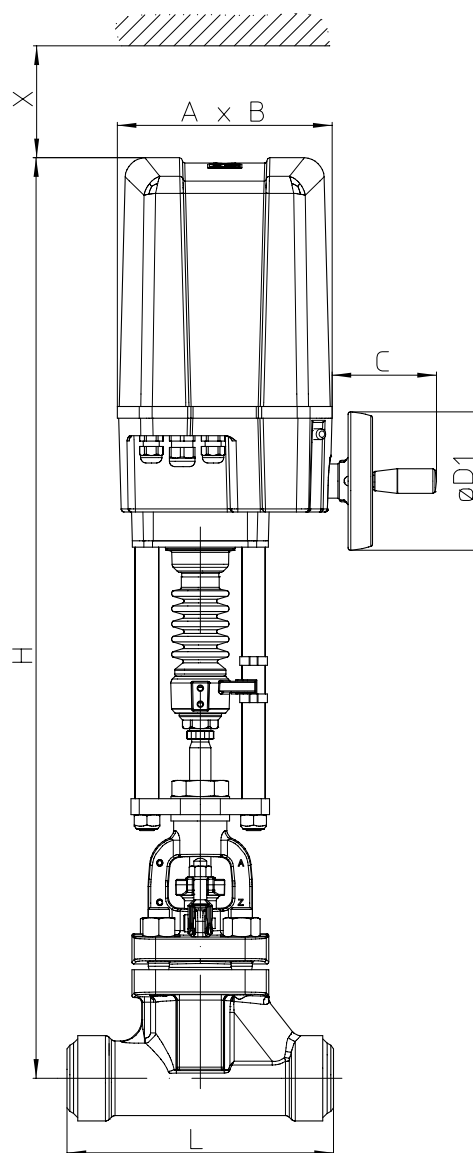


Fig. 005

Actuator data		5 kN	12 - 15 kN
A	(mm)	171	210
B	(mm)	156	184
C	(mm)	50	90
Ø D1	(mm)	90	130
X	(mm)	150	200

Further technical data of the actuator: refer to data sheet ARI-PREMIO/PREMIO-Plus 2G

Heights and weights

DN	10	15	20	25	32	40	50	65	80	100	125	150	
Fig. 006	H	(mm)	651	651	651	651	--	--	--	--	--	--	--
	5 kN	PN63-160	(kg)	15	15,2	16,8	17,8	--	--	--	--	--	--
	H	(mm)	801	801	801	801	851	851	864	on request			
	12 kN / 15 kN	PN63-160	(kg)	19,5	19,7	21,3	22,3	30,5	32,5	38	on request		

Face-to-face dimension FTF serie 2 acc. to DIN EN 558

Standard-flange dimensions refer to page 19

Fig. 005	H	(mm)	651	651	651	651	--	--	--	--	--	--	--
	5 kN	PN63-160	(kg)	12,7	12,7	12,7	12,9	--	--	--	--	--	--
	H	(mm)	801	801	801	801	851	851	864	on request			
	12 kN / 15 kN	PN63-160	(kg)	17,2	17,2	17,2	17,4	24,7	24,7	27,2	on request		

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

Valves with butt weld ends refer to page 19

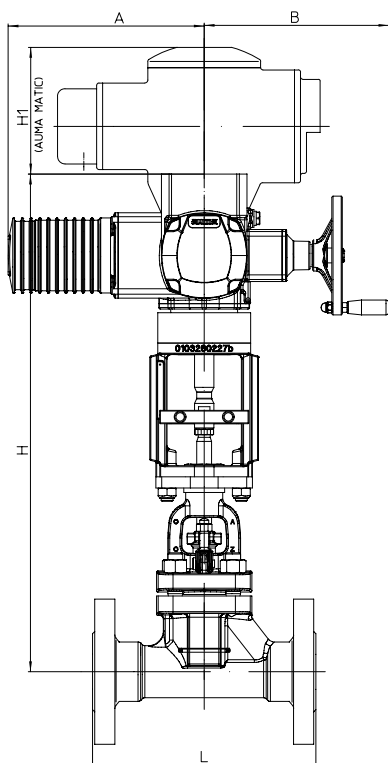
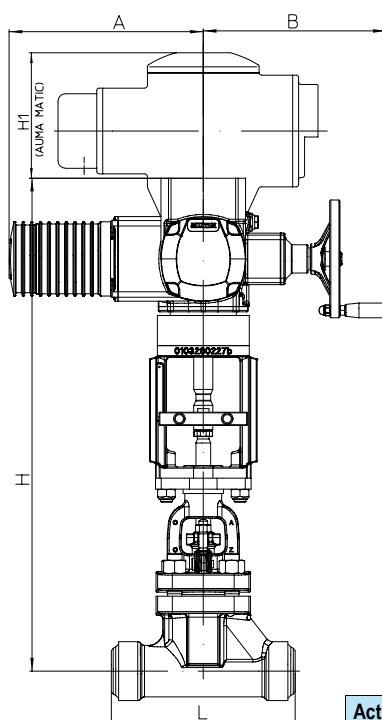
max. permissible closing pressures on flow-to-open P2 = 0.
Observe restrictions by Pressure-temperature-ratings, refer to page 20.

DN		10	15	20	25	32	40	50	65	80	100	125	150	
Kvs-value	(m³/h)	2,7	4,2	6,4	8,6	21,8	24,2	33	on request					
max. differential press. ¹⁾	(bar)	2	2	2	2	2	2	2						
Travel	(mm)	11	11	11	11	17	17	21						
5 kN	Closing pressure	(bar)	30	30	30	30								
	Operating time	(s)	29	29	29	29								
	Control speed	(mm/s)	0,38											
12 kN	Closing pressure	(bar)	60	60	60	60	50	50						40
	Operating time	(s)	29	29	29	29	45	45						45
	Control speed	(mm/s)	0,38											
15 kN	Closing pressure	(bar)	70	70	70	70	60	60						50
	Operating time	(s)	29	29	29	29	45	45						45
	Control speed	(mm/s)	0,38											

Further operating speeds: refer to data sheet ARI-PREMIO/PREMIO-Plus 2G

Operating time [s]=	$\frac{\text{Travel [mm]}}{\text{Operating speed [mm/s]}}$
----------------------------	--

¹⁾ Max. differential pressure drop at flow

Stop valve in straightway form with gland packing with electric actuator AUMA

Fig. 006

Fig. 005

 Connection
acc. to ISO 5210
group A

Actuator data		SA 07.6	SA 10.2
A	(mm)	265	283
B	(mm)	249	254
H1 (AUMA MATIC)	(mm)	130	
Supply voltage: 400V 50Hz 3~ (Other voltages on request)			
Technical data for actuator refer to price list.			

Heights and weights

DN			10	15	20	25	32	40	50	65	80	100	125	150
Fig. 006	H	(mm)	707	707	707	707	758	758	771	--	--	--	--	--
	SA 07.6	PN63-160	(kg)	27,9	28,1	29,7	30,7	39	41	46,5	--	--	--	--
	H	(mm)	--	--	--	--	770	770	783	on request				
	SA 10.2	PN63-160	(kg)	--	--	--	--	43	42					
Face-to-face dimension FTF serie 2 acc. to DIN EN 558										Standard-flange dimensions refer to page 19				

Fig. 005	H	(mm)	707	707	707	707	758	758	771	--	--	--	--	--
	SA 07.6	PN63-160	(kg)	25,6	25,6	25,6	25,8	33,2	33,2	35,7	--	--	--	--
	H	(mm)	--	--	--	--	770	770	783	on request				
	SA 10.2	PN63-160	(kg)	--	--	--	--	37,2	37,2					
Face-to-face dimension ETE serie 65 acc. to DIN EN 12982										Valves with butt weld ends refer to page 19				

max. permissible closing pressures on flow-to-open P2 = 0.

Observe restrictions by Pressure-temperature-ratings, refer to page 20.

DN		10	15	20	25	32	40	50	65	80	100	125	150	
Kvs-value	(m³/h)	2,7	4,2	6,4	8,6	21,8	24,2	33	on request					
max. differential press. ¹⁾	(bar)	2	2	2	2	2	2	2						
Travel	(mm)	11	11	11	11	17	17	21						
SA 07.6 Output drive Form A TR 26 x 5 - LH	Closing pressure	(bar)	160	160	160	160	80	80						80
	Torque	(Nm)	60	60	60	60	60	60						60
	Operating time (50 Hz)	(s)	8	8	8	8	13	13						15
	Output drive	(rpm)	16	16	16	16	16	16						16
SA 10.2 Output drive Form A TR 26 x 5 - LH	Closing pressure	(bar)					160	160						160
	Torque	(Nm)					100	100						120
	Operating time (50 Hz)	(s)					13	13						15
	Output drive	(rpm)					16	16						16

¹⁾ Max. differential pressure drop at flow

Stop valve in straightway form with gland packing with electric actuator AUMA

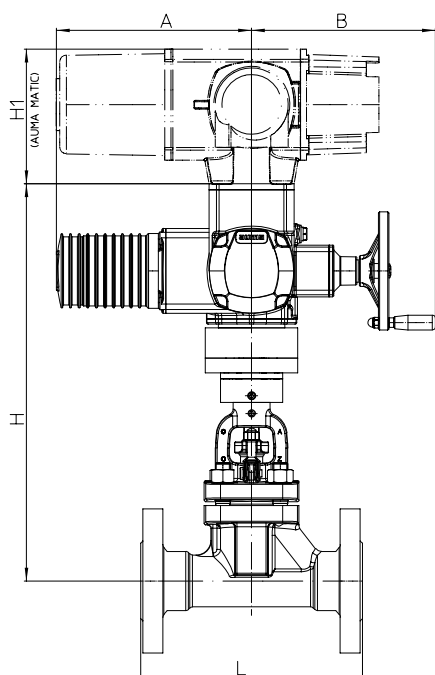


Fig. 006

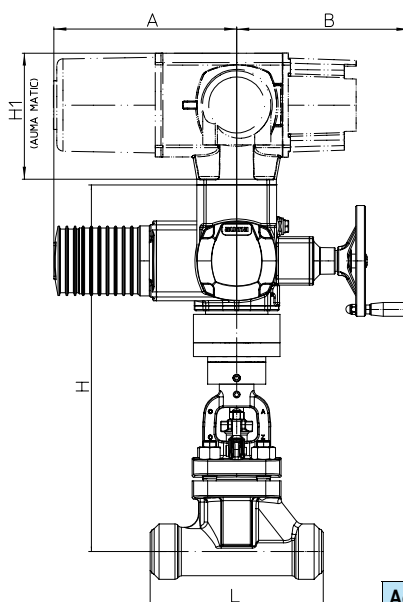


Fig. 005

 Connection F10
 acc. to ISO 5210
 group (lock bush) B1

Actuator data		SA 07.6	SA 10.2
A	(mm)	265	283
B	(mm)	249	254
H1 (AUMA MATIC)	(mm)	130	
Supply voltage: 400V 50Hz 3~ (Other voltages on request)			
Technical data for actuator refer to price list.			

Heights and weights

DN				10	15	20	25	32	40	50
Fig. 006	H		(mm)	466	466	466	466	520	520	535
	SA 07.6	PN63-160	(kg)	20,7	20,9	22,5	23,5	42	44	50
	H		(mm)	--	--	--	--	520	520	535
	SA 10.2	PN63-160	(kg)	--	--	--	--	43	42	50,5
Face-to-face dimension FTF serie 2 acc. to DIN EN 558								Standard-flange dimensions refer to page 19		

Fig. 005	H		(mm)	466	466	466	466	520	520	535
	SA 07.6	PN63-160	(kg)	18,5	18,5	18,5	18,6	26,2	26,2	29,2
	H		(mm)	--	--	--	--	520	520	535
	SA 10.2	PN63-160	(kg)	--	--	--	--	37,2	37,2	39,7
Face-to-face dimension ETE serie 65 acc. to DIN EN 12982								Valves with butt weld ends refer to page 19		

Larger nominal diameters refer to page 18

max. permissible closing pressures on flow-to-open P2 = 0.
 Observe restrictions by Pressure-temperature-ratings, refer to page 20.

DN			10	15	20	25	32	40	50
Kvs-value		(m³/h)	2,7	4,2	6,4	8,6	21,8	24,2	33
max. differential press. ¹⁾		(bar)	2	2	2	2	2	2	2
Travel		(mm)	11	11	11	11	17	17	21
SA 07.6 Output drive Form B1	Closing pressure	(bar)	160	160	160	160	80	80	80
	Torque	(Nm)	60	60	60	60	60	60	60
	Operating time (50 Hz)	(s)	21	21	21	21	32	32	39
	Output drive	(rpm)	16	16	16	16	16	16	16
SA 10.2 Output drive Form B1	Closing pressure	(bar)					160	160	160
	Torque	(Nm)					100	100	120
	Operating time (50 Hz)	(s)					32	32	39
	Output drive	(rpm)					16	16	16

Larger nominal diameters refer to page 18

¹⁾ Max. differential pressure drop at flow

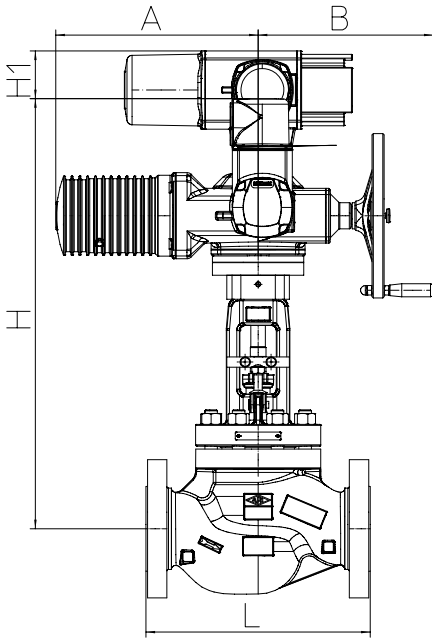
Stop valve in straightway form with gland packing with electric actuator AUMA


Fig. 006

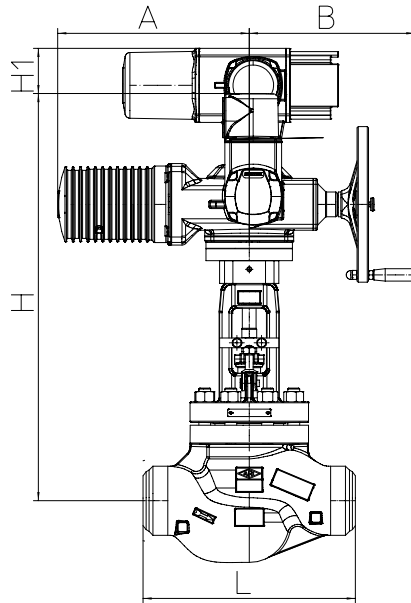


Fig. 005

Connection F14
acc. to ISO 5210
group (lock bush) B1

Actuator data		SA 14.2
A	(mm)	389
B	(mm)	336
H1 (AUMATIC AC)	(mm)	90
Supply voltage: 400V 50Hz 3~ (Other voltages on request)		
Technical data for actuator refer to price list.		

Heights and weights

DN			65	80	100	
Fig. 006	H	(mm)	780	800	830	
	SA 14.2	PN63	(kg)	108	127	149
		PN100-160	(kg)	118	139	165
Face-to-face dimension FTF serie 2 acc. to DIN EN 558			Standard-flange dimensions refer to page 19			
Fig. 005	H	(mm)	780	800	830	
	SA 14.2	PN63-160	(kg)	104	125	145
		Face-to-face dimension ETE serie 65 acc. to DIN EN 12982			Valves with butt weld ends refer to page 19	
Smaller nominal diameters refer to page 17						

max. permissible closing pressures on flow-to-open P2 = 0.

Observe restrictions by Pressure-temperature-ratings, refer to page 20.

DN			65	80	100
Kvs-value	(m³/h)		71	122	162
max. differential press. ¹⁾	(bar)		2	2	2
Travel	(mm)		27	32	39
SA 14.2 Output drive Form B1	Closing pressure	(bar)	110	70	44
	Torque	(Nm)	200	200	200
	Operating time (50 Hz)	(s)	33	40	49
	Output drive	(min ⁻¹)	16	16	16
Smaller nominal diameters refer to page 17					

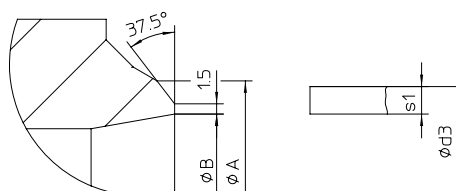
¹⁾ Max. differential pressure drop at flow

DN	10	15	20	25	32	40	50	65	80	100	125	150	
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	on request
	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

 $\text{Ød3} / \text{s1} = \text{corresponding pipe dimension}$


DN	10	15	20	25	32	40	50	65	80	100	125	150
----	----	----	----	----	----	----	----	----	----	-----	-----	-----

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	on request
	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 serie 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

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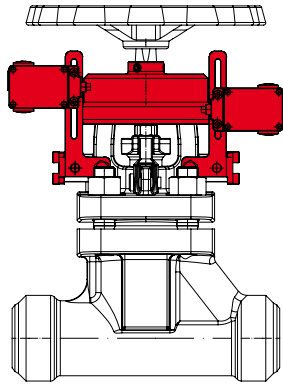
Pressure-temperature-ratings	Intermediate values for max. permissible operational pressures can be determined by linear interpolation of the given temperature / pressure chart.
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acc. to manufacturers standard			-10°C to 50°C	100°C	150 °C	200°C	250°C	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

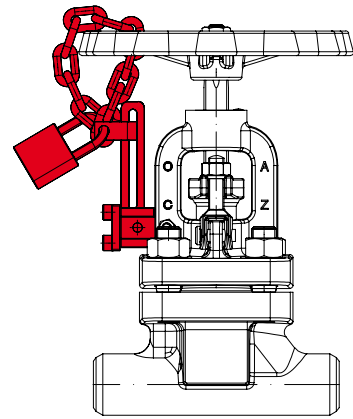
acc. to manufacturers standard			-10°C to 50°C	120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.0460	PN 63	(bar)	63	63	58	50	45	40	36	32	24
	PN 100	(bar)	100	100	90	80	70	60	56	50	38
	PN 160	(bar)	160	160	145	130	112	96	90	80	60

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	--	--

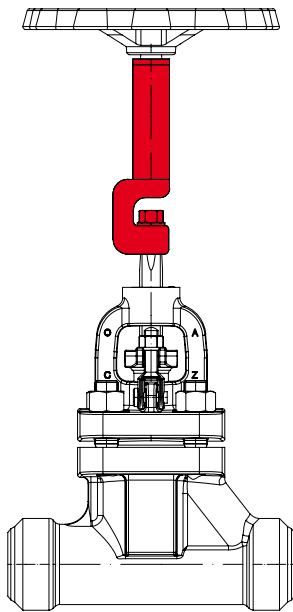
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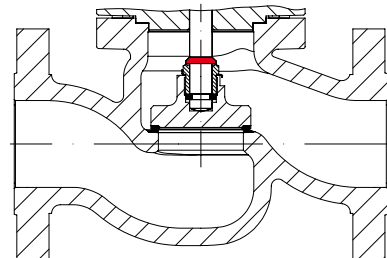
Limit switch, mechanic
(special limit switches on request)



Tamper resistant
handwheel blocking

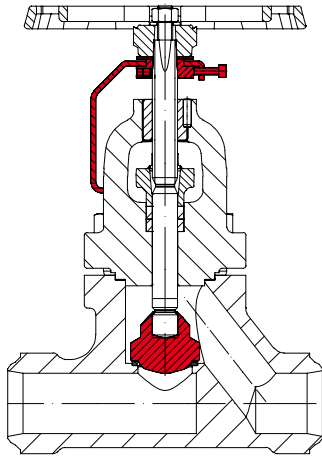


Stem extension
(please specify height in your order)



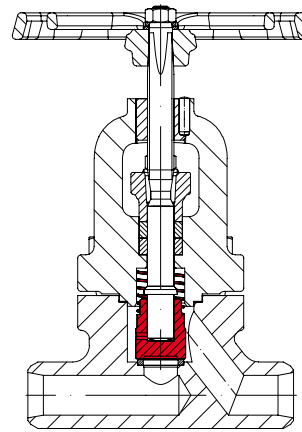
DN65-100: Back seat (when fully opened valve)
DN10-50: standard

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DN10-50: Regulating plug with position indicator and locking device
(for max. permissible ΔP refer to: Flow diagram)

DN65-100: on request

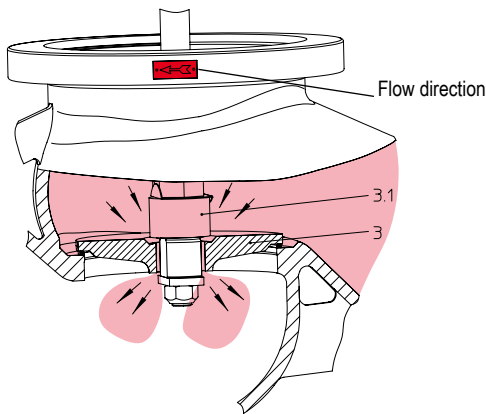


DN10-50: Screw down non-return plug with re-setting spring

DN65-100: on request

Set pressure 0,15 bar

Flow values (Kvs and Zeta) refer to data sheet „Check valves“.



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.

Balancing plug

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

DN		65	80	100	125	150
Gauge press. (ΔP)	(bar)	110	70	44	on request	

Please indicate when ordering

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

Example:

Figure 46.006; Nominal pressure PN63; Nominal diameter DN50; with regulating plug with position indicator and locking device.