

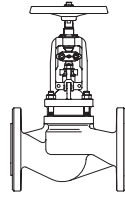
Maintenance free stop valve with bellows seal - metallic sealing

ARI-FABA®-Supra I
ARI-FABA®-Supra C
Straight through with flanges

- TA - Luft TÜV-Test-No. 973-10183778
- TRB 801 Annex II No. 45

Cast steel
Forged steel
Stainless steel

Fig. 146



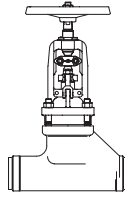
Page 2-7

ARI-FABA®-Supra I
ARI-FABA®-Supra C
Straight through with butt weld ends

- TA - Luft TÜV-Test-No. 973-10183778
- TRB 801 Annex II No. 45

Forged steel

Fig. 140



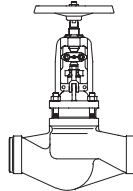
Page 8-9

ARI-FABA®-Supra I
ARI-FABA®-Supra C
Straight through with butt weld ends

- TA - Luft TÜV-Test-No. 973-10183778
- TRB 801 Annex II No. 45

Cast steel

Fig. 140



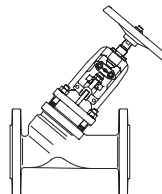
Page 10-11

ARI-FABA®-Supra I
ARI-FABA®-Supra C
Y-pattern with flanges

- TA - Luft TÜV-Test-No. 973-10183778
- TRB 801 Annex II No. 45

Stainless steel

Fig. 169



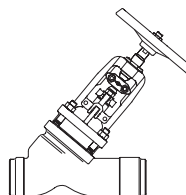
Page 12-13

ARI-FABA®-Supra I
ARI-FABA®-Supra C
Y-pattern with butt weld ends

- TA - Luft TÜV-Test-No. 973-10183778
- TRB 801 Annex II No. 45

Cast steel
Stainless steel

Fig. 166



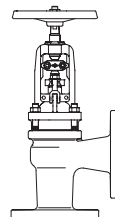
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ARI-FABA®-Supra I
ARI-FABA®-Supra C
Angle pattern with flanges

- TA - Luft TÜV-Test-No. 973-10183778
- TRB 801 Annex II No. 45

Cast steel

Fig. 147



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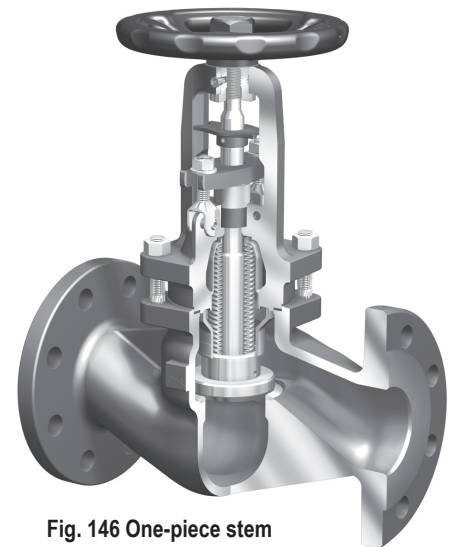


Fig. 146 One-piece stem

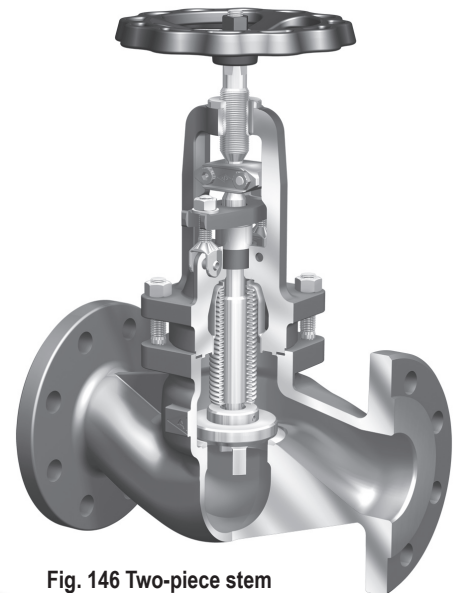


Fig. 146 Two-piece stem

For ANSI versions
refer to data sheet „ARI-FABA®-Plus/-Supra ANSI“

Features:

- Double wall bellows seal as standard
- Bellows seal welded to bonnet
- Bellows seal 10.000 load cycles
- Industrial version: Bellows seal shielded
Chemical version: Bellows seal flushed
- Stem back seal
- Yoke gasket, double chambered
- Plug with marginal seat
- Welded seat
- External stem thread
- Actuator retrofitting
- Secondary sealing: gland packing (with bridge)
- Stem with roll hardened thread

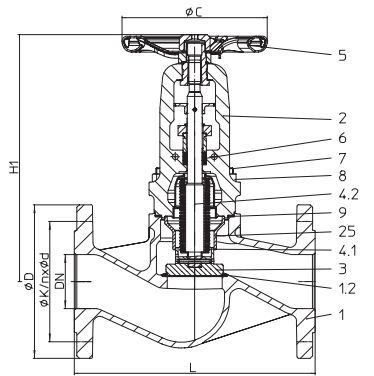
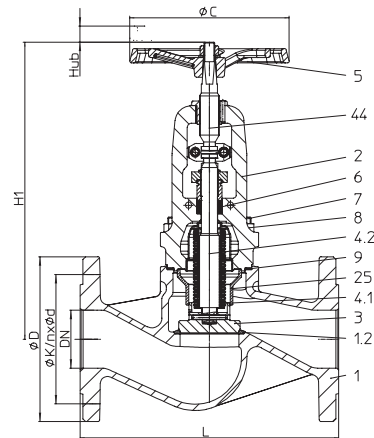
Stop valve - straight through with flanges and bellows seal - Industrial version (Cast steel)

Fig. 146....111
One-piece stem

Fig. 146....112
Two-piece stem
Parts

Figure-No.	Nominal pressure	Material	Nominal diameter
34.146....111	PN25	1.0619+N	DN200-400
35.146....111	PN40	1.0619+N	DN15-400
34.146....112	PN25	1.0619+N	DN200-400
35.146....112	PN40	1.0619+N	DN15-400

Test: • TA - Luft TÜV-Test-No. 973-10183778

At high differential pressures a balancing plug is necessary! (refer to page 21)

Selection of possible applications

Industry, Power plant, Flue gas purification plant, Processing technology, Gas supply, Vapour facilities, Recycling facilities, Vacuum plant, Thermaloil-systems, General plant manufacturing, etc.

(other applications on request)

Selection of possible flow media

Steam, Gases, Hot water, Heat transfer oil, Ammonia, etc.

(other flow media on request)

Pos.	Description	Fig. 34. / 35. 146....111 One-piece stem	Fig. 34. / 35. 146....112 Two-piece stem
1	Body	GP240GH+N, 1.0619+N	
1.2	Seat	G19 9 NbSi, 1.4551	
2	Bonnet	GP240GH+N, 1.0619+N	
3	Plug *	X20Cr13+QT, 1.4021+QT (hardened)	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X6CrNiMoTi17 12 2, 1.4571	
5	Handwheel *	≤DN125: St (cataphoretic coating) / ≥DN150: EN-GJS-400-15, EN-JS1030 (epoxy-coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	25CrMo4, 1.7218	
8	Hexagon nut	C35E, 1.1181	
9	Gasket *	Pure graphite (with CrNi-grooved)	
25	Guide bush	≤DN32: X6CrNiMoTi17 12 2, 1.4571 / ≥DN40: GX5CrNiMo19-11-2, 1.4408	
44	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists / The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

Dimensions

	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	in preparation				
H1 (One-piece stem)	(mm)	225	225	230	230	270	275	300	380	460	500	570					
H1 (Two-piece stem)	(mm)	240	240	240	240	290	295	335	395	505	550	605					
ØC (One-piece stem)	(mm)	125	125	125	125	150	150	175	225	300	300	400					
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160	180	225	300	300	400					
Travel	(mm)	6	6	8	8	13	13	16	20	25	32	40					
Kvs-value	(m³/h)	4,7	6,4	11	15,5	28	42,5	75	105	170	270	405					
Zeta-value	--	3,7	6,2	5,2	7	5,2	5,5	5,1	5,9	5,5	5,3	4,9					

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

Standard-flange dimensions refer to page 25

Face-to-face dimension FTF Series 1 acc. to DIN EN 558

Weights

Figure-No.	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
34./35.146	(kg)	4,7	5,7	7	8,1	11,6	14,2	21,9	32,3	47,6	70,6	95	in preparation				

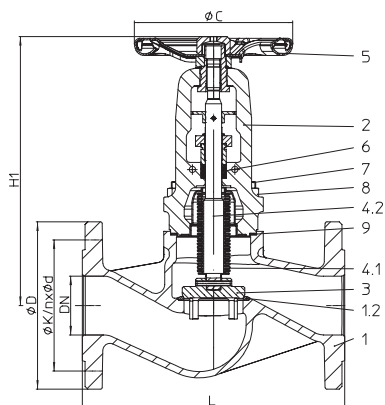
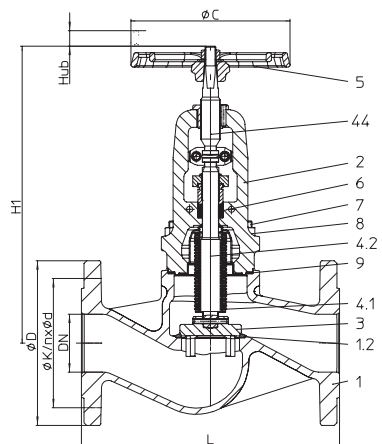
Stop valve - straight through with flanges and bellows seal - Chemical version (Cast steel)

**Fig. 146....153
One-piece stem**

**Fig. 146....154
Two-piece stem
Parts**

Figure-No.	Nominal pressure	Material	Nominal diameter
34.146....153	PN25	1.0619+N	DN200-400
35.146....153	PN40	1.0619+N	DN15-400
34.146....154	PN25	1.0619+N	DN200-400
35.146....154	PN40	1.0619+N	DN15-400

Test: • TA - Luft TÜV-Test-No. 973-10183778

At high differential pressures a balancing plug is necessary! (refer to page 21)

Selection of possible applications

Industry, Power plant, Flue gas purification plant, Processing technology, Gas supply, Vapour facilities, Recycling facilities, Vacuum plant, Thermaloil-systems, General plant manufacturing, etc.

(other applications on request)

Selection of possible flow media

Steam, Gases, Hot water, Heat transfer oil, Ammonia, etc.

(other flow media on request)

Pos.	Description	Fig. 34. / 35. 146....153 One-piece stem	Fig. 34. / 35. 146....154 Two-piece stem
1	Body	GP240GH+N, 1.0619+N	
1.2	Seat	G19 9 NbSi, 1.4551	
2	Bonnet	GP240GH+N, 1.0619+N	
3	Plug *	X20Cr13+QT, 1.4021+QT (hardened)	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem *	X6CrNiMoTi17 12 2, 1.4571	
5	Handwheel *	≤DN125: St (cataphoretic coating) / ≥DN150: EN-GJS-400-15, EN-JS1030 (epoxy-coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	25CrMo4, 1.7218	
8	Hexagon nut	C35E, 1.1181	
9	Gasket *	Pure graphite (with CrNi-grooved)	
44	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists

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

Dimensions

	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	in preparation					
H1 (One-piece stem)	(mm)	225	225	230	230	270	275	300	380	460	500	570						
H1 (Two-piece stem)	(mm)	240	240	240	240	290	295	335	395	505	550	605						
ØC (One-piece stem)	(mm)	125	125	125	125	150	150	175	225	300	300	400						
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160	180	225	300	300	400						
Travel	(mm)	6	6	8	8	13	13	16	20	25	32	40						
Kvs-value	(m³/h)	4,4	6	10	13,3	25,5	38,5	64	90	135	215	325						
Zeta-value	--	4,2	7,1	6,2	9,5	6,3	6,7	7	8,1	8,8	8,4	7,7						
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173																		

Face-to-face dimension FTF Series 1 acc. to DIN EN 558

Weights

Figure-No.	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	
34./35.146	(kg)	4,7	5,7	7	8,1	11,6	14,2	21,9	32,3	47,6	70,6	95	in preparation					

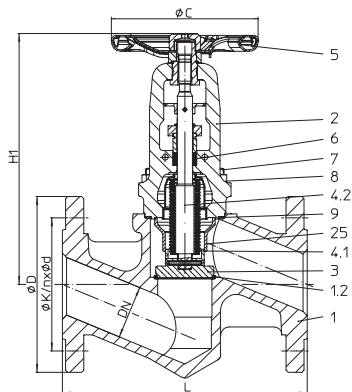
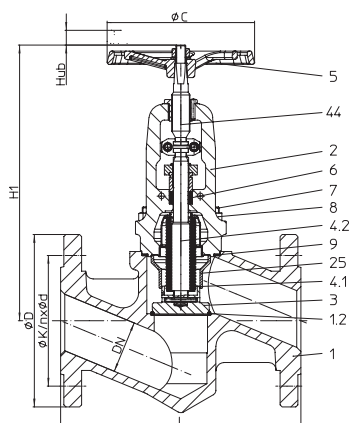
Stop valve - straight through with flanges and bellows seal - Industrial version (Forged steel)

Fig. 146....111 DN40-50
One-piece stem

Fig. 146....112 DN40-50
Two-piece stem

Figure-No.	Nominal pressure	Material	Nominal diameter
45.146....111	PN40	1.0460	DN15-50
45.146....112	PN40	1.0460	DN15-50
DN >50 refer to Fig. 35.146 (1.0619+N)			
Test: • TA - Luft TÜV-Test-No. 973-10183778			

Selection of possible applications

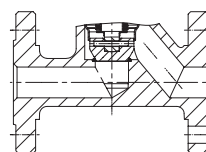
Industry, Power plant, Flue gas purification plant, Processing technology, Gas supply, Vapour facilities, Recycling facilities, Vacuum plant, Thermaloil-systems, General plant manufacturing, etc.

(other applications on request)

Selection of possible flow media

Steam, Gases, Hot water, Heat transfer oil, Ammonia, etc.

(other flow media on request)


DN15-32
Parts

Pos.	Description	Fig. 45. 146....111 One-piece stem	Fig. 45. 146....112 Two-piece stem
1	Body	P250 GH, 1.0460	
1.2	Seat	G19 9 NbSi, 1.4551	
2	Bonnet	GP240GH+N, 1.0619+N	
3	Plug *	X20Cr13+QT, 1.4021+QT (hardened)	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X20Cr13+QT, 1.4021+QT	
5	Handwheel *	St (cataphoretic coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	25CrMo4, 1.7218	
8	Hexagon nut	C35E, 1.1181	
9	Gasket *	Pure graphite (with CrNi-grooved)	
25	Guide bush	≤DN32: X6CrNiMoTi17 12 2, 1.4571 / ≥DN40: GX5CrNiMo19-11-2, 1.4408	
44	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists

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

Dimensions

	DN	15	20	25	32	40	50
L	(mm)	130	150	160	180	200	230
H1 (One-piece stem)	(mm)	235	235	245	250	275	275
H1 (Two-piece stem)	(mm)	250	250	255	260	295	295
ØC (One-piece stem)	(mm)	125	125	125	125	150	150
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160
Travel	(mm)	6	6	8	8	13	13
Kvs-value	(m³/h)	3,4	6	9,5	12,5	21	31
Zeta-value	--	7	7,1	6,9	10,7	9,3	10,4

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

Standard-flange dimensions refer to page 25

Face-to-face dimension FTF Series 1 acc. to DIN EN 558

Weights

Figure-No.	DN	15	20	25	32	40	50
45.146	(kg)	4,4	5,4	6,3	7,8	11	13,5

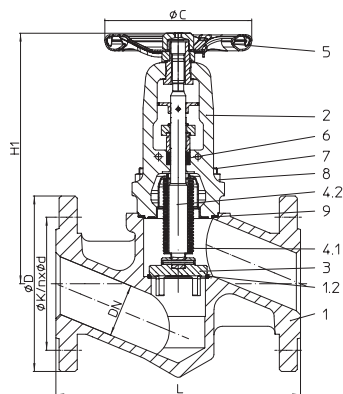
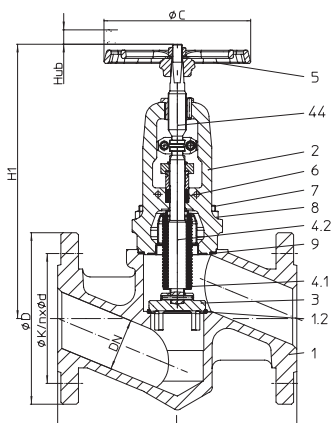
Stop valve - straight through with flanges and bellows seal - Chemical version (Forged steel)

**Fig. 146...153 DN40-50
One-piece stem**

**Fig. 146...154 DN40-50
Two-piece stem**

Figure-No.	Nominal pressure	Material	Nominal diameter
45.146...153	PN40	1.0460	DN15-50
45.146...154	PN40	1.0460	DN15-50
DN >50 refer to Fig. 35.146 (1.0619+N)			
Test: • TA - Luft TÜV-Test-No. 973-10183778			

Selection of possible applications

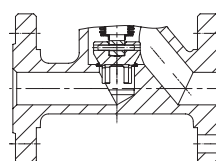
Industry, Power plant, Flue gas purification plant, Processing technology, Gas supply, Vapour facilities, Recycling facilities, Vacuum plant, Thermaloil-systems, General plant manufacturing, etc.

(other applications on request)

Selection of possible flow media

Steam, Gases, Hot water, Heat transfer oil, Ammonia, etc.

(other flow media on request)


DN15-32
Parts

Pos.	Description	Fig. 45. 146...153 One-piece stem	Fig. 45. 146...154 Two-piece stem
1	Body	P250 GH, 1.0460	
1.2	Seat	G19 9 NbSi, 1.4551	
2	Bonnet	GP240GH+N, 1.0619+N	
3	Plug *	X20Cr13+QT, 1.4021+QT (hardened)	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X20Cr13+QT, 1.4021+QT	
5	Handwheel *	St (cataphoretic coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	25CrMo4, 1.7218	
8	Hexagon nut	C35E, 1.1181	
9	Gasket *	Pure graphite (with CrNi-grooved)	
44	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

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A production allowance acc. to TRB 801 No. 45 exists

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

Dimensions

	DN	15	20	25	32	40	50
L	(mm)	130	150	160	180	200	230
H1 (One-piece stem)	(mm)	235	235	245	250	275	275
H1 (Two-piece stem)	(mm)	250	250	255	260	295	295
ØC (One-piece stem)	(mm)	125	125	125	125	150	150
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160
Travel	(mm)	6	6	8	8	13	13
Kvs-value	(m³/h)	3,3	5,8	9,2	11,5	21,5	32
Zeta-value	--	7,4	7,6	7,4	12,7	8,8	9,7

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

Standard-flange dimensions refer to page 25

Face-to-face dimension FTF Series 1 acc. to DIN EN 558

Weights

Figure-No.	DN	15	20	25	32	40	50
45.146	(kg)	4,4	5,4	6,3	7,8	11	13,5

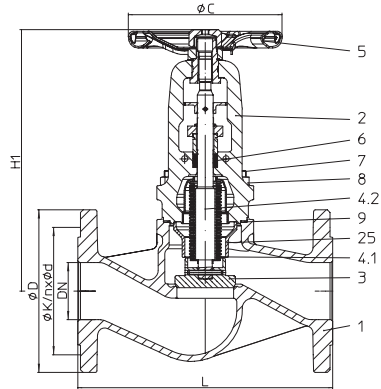
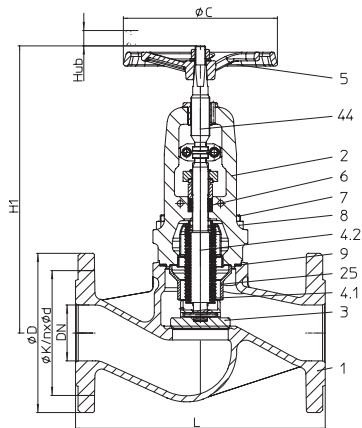
Stop valve - straight through with flanges and bellows seal - Industrial version (Stainless steel)

Fig. 146....111
One-piece stem

Fig. 146....112
Two-piece stem

Figure-No.	Nominal pressure	Material	Nominal diameter
54.146....111	PN25	1.4408	DN200-250
55.146....111	PN40	1.4408	DN15-250
54.146....112	PN25	1.4408	DN200-250
55.146....112	PN40	1.4408	DN15-250

Test: • TA - Luft TÜV-Test-No. 973-10183778

At high differential pressures a balancing plug is necessary! (refer to page 21)

Selection of possible applications

Recycling facilities, Chemical industry, Processing technology, Process water installations, Installations with aggressive media, etc.

(other applications on request)

Selection of possible flow media

Aggressive media, etc.

(other flow media on request)

Parts

Pos.	Description	Fig. 54. / 55. 146....111 One-piece stem	Fig. 54. / 55. 146....112 Two-piece stem
1	Body	GX5CrNiMo19-11-2, 1.4408	
2	Bonnet	GX5CrNiMo19-11-2, 1.4408	
3	Plug *	X6CrNiMoTi17 12 2, 1.4571 / Stellite 6	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X6CrNiMoTi17 12 2, 1.4571	
5	Handwheel *	≤DN125: St (cataphoretic coating) / ≥DN150: EN-GJS-400-15, EN-JS1030 (epoxy-coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	A4-70	
8	Hexagon nut	A4	
9	Gasket *	Pure graphite (with CrNi-grooved)	
25	Guide bush	≤DN32: X6CrNiMoTi17 12 2, 1.4571 / ≥DN40: GX5CrNiMo19-11-2, 1.4408	
44	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

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A production allowance acc. to TRB 801 No. 45 exists

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

Dimensions

	DN	15	20	25	32	40	50	65	80	100	125	150	200	250
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	in preparation	
H1 (One-piece stem)	(mm)	225	225	230	230	270	275	300	380	460	500	570		
H1 (Two-piece stem)	(mm)	240	240	240	240	290	295	335	395	505	550	605		
ØC (One-piece stem)	(mm)	125	125	125	125	150	150	175	225	300	300	400		
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160	180	225	300	300	400		
Travel	(mm)	6	6	8	8	13	13	16	20	25	32	40		
Kvs-value	(m³/h)	4,7	6,4	11	15,5	28	42,5	75	105	170	270	405		
Zeta-value	--	3,7	6,2	5,2	7	5,2	5,5	5,1	5,9	5,5	5,3	4,9		

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

Standard-flange dimensions refer to page 25

Face-to-face dimension FTF Series 1 acc. to DIN EN 558

Weights

Figure-No.	DN	15	20	25	32	40	50	65	80	100	125	150	200	250
54./55.146	(kg)	4,9	5,4	7,1	8,1	11,3	14,1	21,8	30	45,5	63,5	78	in preparation	

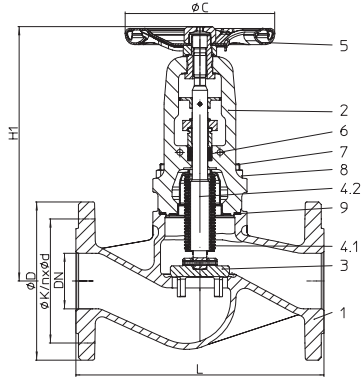
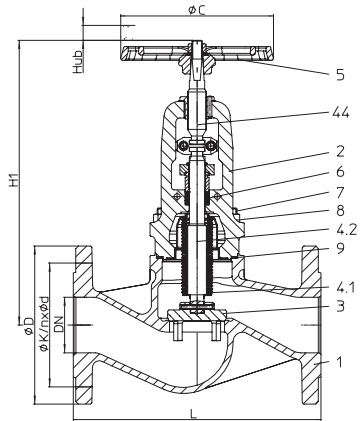
Stop valve - straight through with flanges and bellows seal - Chemical version (Stainless steel)
**Fig. 146...153
One-piece stem**

**Fig. 146...154
Two-piece stem**


Figure-No.	Nominal pressure	Material	Nominal diameter
54.146....153	PN25	1.4408	DN200-250
55.146....153	PN40	1.4408	DN15-250
54.146....154	PN25	1.4408	DN200-250
55.146....154	PN40	1.4408	DN15-250

Test: • TA - Luft TÜV-Test-No. 973-10183778

At high differential pressures a balancing plug is necessary! (refer to page 21)

Selection of possible applications

Recycling facilities, Chemical industry, Process pipes, Processing technology, Process water installations, Installations with aggressive media, etc.

(other applications on request)

Selection of possible flow media

Aggressive media, Chemical products, etc.

(other flow media on request)

Parts

Pos.	Description	Fig. 54. / 55. 146...153 One-piece stem	Fig. 54. / 55. 146...154 Two-piece stem
1	Body	GX5CrNiMo19-11-2, 1.4408	
2	Bonnet	GX5CrNiMo19-11-2, 1.4408	
3	Plug *	X6CrNiMoTi17 12 2, 1.4571 / Stellite 6	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X6CrNiMoTi17 12 2, 1.4571	
5	Handwheel *	≤DN125: St (cathaphoretic coating) / ≥DN150: EN-GJS-400-15, EN-JS1030 (epoxy-coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	A4-70	
8	Hexagon nut	A4	
9	Gasket *	Pure graphite (with CrNi-grooved)	
44	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists

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

Dimensions

	DN	15	20	25	32	40	50	65	80	100	125	150	200	250
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	in preparation	
H1 (One-piece stem)	(mm)	225	225	230	230	270	275	300	380	460	500	570		
H1 (Two-piece stem)	(mm)	240	240	240	240	290	295	335	395	505	550	605		
ØC (One-piece stem)	(mm)	125	125	125	125	150	150	175	225	300	300	400		
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160	180	225	300	300	400		
Travel	(mm)	6	6	8	8	13	13	16	20	25	32	40		
Kvs-value	(m³/h)	4,4	6	10	13,3	25,5	38,5	64	90	135	215	325		
Zeta-value	--	4,2	7,1	6,2	9,5	6,3	6,7	7	8,1	8,8	8,4	7,7		

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

Standard-flange dimensions refer to page 25

Face-to-face dimension FTF Series 1 acc. to DIN EN 558

Weights

Figure-No.	DN	15	20	25	32	40	50	65	80	100	125	150	200	250
54./55.146	(kg)	4,9	5,4	7,1	8,1	11,3	14,1	21,8	30	45,5	63,5	78	in preparation	

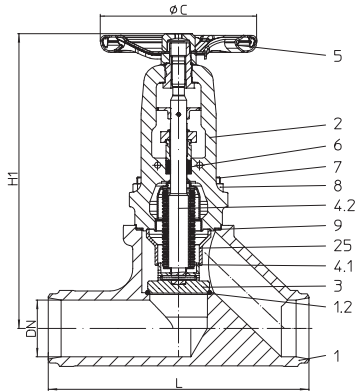
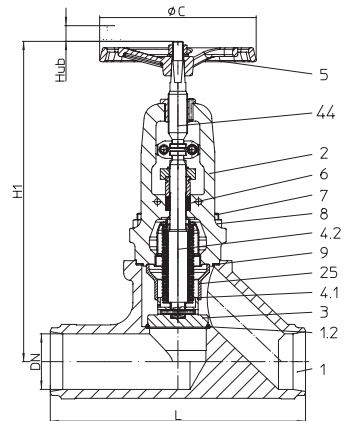
Stop valve - straight through with butt weld ends and bellows seal - Industrial version (Forged steel)

Fig. 140....111
One-piece stem

Fig. 140....112
Two-piece stem

Figure-No.	Nominal pressure	Material	Nominal diameter
45.140....111	PN40	1.0460	DN15-50
45.140....112	PN40	1.0460	DN15-50
DN >50 refer to Fig. 35.040 (1.0619+N)			
Butt weld ends according to DIN EN 12627 - 4 (refer to page 20)			
Test: • TA - Luft TÜV-Test-No. 973-10183778			

Selection of possible applications

Industry, Power plant, Flue gas purification plant, Processing technology, Gas supply, Vapour facilities, Recycling facilities, Vacuum plant, Thermal oil-systems, General plant manufacturing, etc.

(other applications on request)

Selection of possible flow media

Steam, Gases, Hot water, Heat transfer oil, Ammonia, etc.

(other flow media on request)

Parts

Pos.	Description	Fig. 45. 140....111 One-piece stem	Fig. 45. 140....112 Two-piece stem
1	Body	P250 GH, 1.0460	
1.2	Seat	G19 9 NbSi, 1.4551	
2	Bonnet	GP240GH+N, 1.0619+N	
3	Plug *	X20Cr13+QT, 1.4021+QT (hardened)	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X20Cr13+QT, 1.4021+QT	
5	Handwheel *	St (cataphoretic coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	25CrMo4, 1.7218	
8	Hexagon nut	C35E, 1.1181	
9	Gasket *	Pure graphite (with CrNi-grooved)	
25	Guide bush	≤DN32: X6CrNiMoTi17 12 2, 1.4571 / ≥DN40: GX5CrNiMo19-11-2, 1.4408	
44	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists

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

Dimensions

	DN	15	20	25	32	40	50
L	(mm)	130	150	160	180	200	230
H1 (One-piece stem)	(mm)	235	235	245	250	295	300
H1 (Two-piece stem)	(mm)	250	250	255	260	315	320
ØC (One-piece stem)	(mm)	125	125	125	125	150	150
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160
Travel	(mm)	6	6	8	8	13	13
Kvs-value	(m³/h)	3,4	6	9,5	12,5	18,5	28
Zeta-value	--	7	7,1	6,9	10,7	11,9	12,7

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

Face-to-face dimension ETE series 1 according to DIN EN 12982

Weights

Figure-No.	DN	15	20	25	32	40	50
45.140	(kg)	3,2	3,4	4,6	5	6,8	9,7

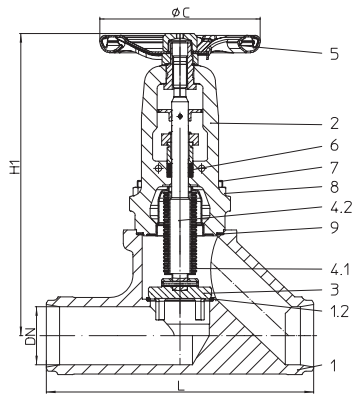
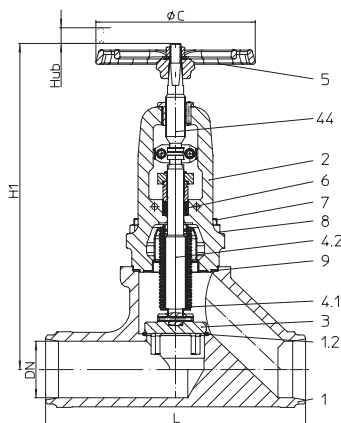
Stop valve - straight through with butt weld ends and bellows seal - Chemical version (Forged steel)

Fig. 140....153
One-piece stem

Fig. 140....154
Two-piece stem

Figure-No.	Nominal pressure	Material	Nominal diameter
45.140....153	PN40	1.0460	DN15-50
45.140....154	PN40	1.0460	DN15-50
DN >50 refer to Fig. 35.040 (1.0619+N)			
Butt weld ends according to DIN EN 12627 - 4 (refer to page 20)			
Test: • TA - Luft TÜV-Test-No. 973-10183778			

Selection of possible applications

Industry, Power plant, Flue gas purification plant, Processing technology, Gas supply, Vapour facilities, Recycling facilities, Vacuum plant, Thermaloil-systems, General plant manufacturing, etc.

(other applications on request)

Selection of possible flow media

Steam, Gases, Hot water, Heat transfer oil, Ammonia, etc.

(other flow media on request)

Parts

Pos.	Description	Fig. 45. 140....153 One-piece stem	Fig. 45. 140....154 Two-piece stem
1	Body	P250 GH, 1.0460	
1.2	Seat	G19 9 NbSi, 1.4551	
2	Bonnet	GP240GH+N, 1.0619+N	
3	Plug *	X20Cr13+QT, 1.4021+QT (hardened)	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X20Cr13+QT, 1.4021+QT	
5	Handwheel *	St (cataphoretic coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	25CrMo4, 1.7218	
8	Hexagon nut	C35E, 1.1181	
9	Gasket *	Pure graphite (with CrNi-grooved)	
44	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists

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

Dimensions

	DN	15	20	25	32	40	50
L	(mm)	130	150	160	180	200	230
H1 (One-piece stem)	(mm)	235	235	245	250	295	300
H1 (Two-piece stem)	(mm)	250	250	255	260	315	320
ØC (One-piece stem)	(mm)	125	125	125	125	150	150
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160
Travel	(mm)	6	6	8	8	13	13
Kvs-value	(m³/h)	3,3	5,8	9,2	11,5	19	29
Zeta-value	--	7,4	7,6	7,4	12,7	11,3	11,9

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

Face-to-face dimension ETE series 1 according to DIN EN 12982

Weights

Figure-No.	DN	15	20	25	32	40	50
45.140	(kg)	3,2	3,4	4,6	5	6,8	9,7

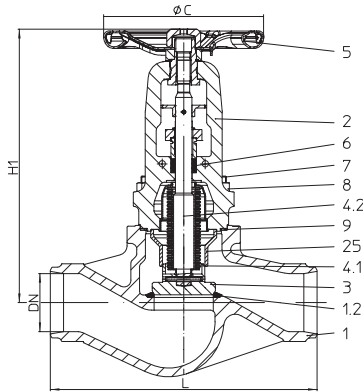
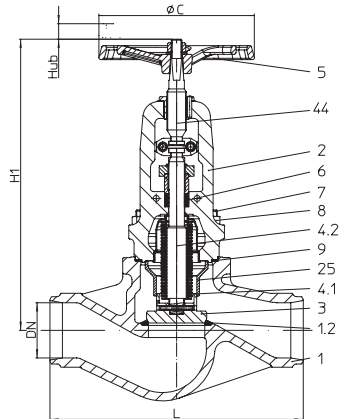
Stop valve - straight through with butt weld ends and bellows seal - Industrial version (Cast steel)

**Fig. 140....111
One-piece stem**

**Fig. 140....112
Two-piece stem**

Figure-No.	Nominal pressure	Material	Nominal diameter
34.140....111	PN25	1.0619+N	DN200-300
35.140....111	PN40	1.0619+N	DN65-250
34.140....112	PN25	1.0619+N	DN200-300
35.140....112	PN40	1.0619+N	DN65-250

Butt weld ends according to DIN EN 12627 - 4 (refer to page 20)
alternative: DN 65-200 with shoed ends of P235GH

Test: • TA - Luft TÜV-Test-No. 973-10183778

At high differential pressures a balancing plug is necessary! (refer to page 21)

Selection of possible applications

Industry, Power plant, Flue gas purification plant, Processing technology, Gas supply, Vapour facilities, Recycling facilities, Vacuum plant, Thermaloil-systems, General plant manufacturing, etc.

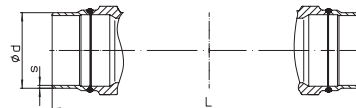
(other applications on request)

Selection of possible flow media

Steam, Gases, Hot water, Heat transfer oil, Ammonia, etc.

(other flow media on request)

alternative


Parts

Pos.	Description	Fig. 34. / 35.140....111 One-piece stem	Fig. 34. / 35.140....112 Two-piece stem
1	Body	GP240GH+N, 1.0619+N	
1.2	Seat	G19 9 NbSi, 1.4551	
2	Bonnet	GP240GH+N, 1.0619+N	
3	Plug *	X20Cr13+QT, 1.4021+QT (hardened)	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X20Cr13+QT, 1.4021+QT	
5	Handwheel *	≤DN125: St (cataphoretic coating) / ≥DN150: EN-GJS-400-15, EN-JS1030 (epoxy-coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	25CrMo4, 1.7218	
8	Hexagon nut	C35E, 1.1181	
9	Gasket *	Pure graphite (with CrNi-grooved)	
25	Guide bush	≤DN32: X6CrNiMoTi17 12 2, 1.4571 / ≥DN40: GX5CrNiMo19-11-2, 1.4408	
37	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists

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

Dimensions

	DN	65	80	100	125	150	200	250	300
L	(mm)	290	310	350	400	480			
H1 (One-piece stem)	(mm)	300	380	460	500	570			
H1 (Two-piece stem)	(mm)	335	390	505	550	605			
ØC (One-piece stem)	(mm)	175	225	300	300	400			
ØC (Two-piece stem)	(mm)	180	225	300	300	400			
Travel	(mm)	16	20	25	32	40			
Kvs-value	(m³/h)	75	105	170	270	405			
Zeta-value	--	5,1	5,9	5,5	5,3	4,9			

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

Face-to-face dimension ETE series 1 according to DIN EN 12982

Weights

Figure-No.	DN	65	80	100	125	150	200	250	300
34. / 35.140	(kg)	14,8	22	36,2	50	63			in preparation

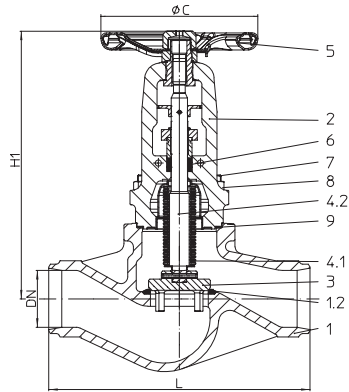
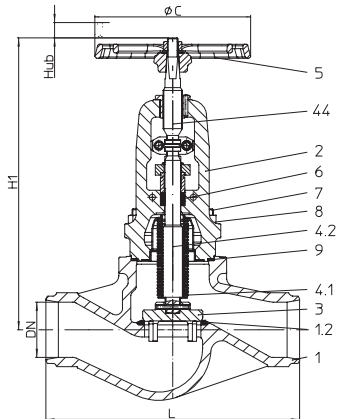
Stop valve - straight through with butt weld ends and bellows seal - Chemical version (Cast steel)

**Fig. 140....153
One-piece stem**

**Fig. 140....154
Two-piece stem**

Figure-No.	Nominal pressure	Material	Nominal diameter
34.140....153	PN25	1.0619+N	DN200-300
35.140....153	PN40	1.0619+N	DN65-250
34.140....154	PN25	1.0619+N	DN200-300
35.140....154	PN40	1.0619+N	DN65-250

Butt weld ends according to DIN EN 12627 - 4 (refer to page 20)
alternative: DN 65-200 with shoed ends of P235GH

Test: • TA - Luft TÜV-Test-No. 973-10183778

At high differential pressures a balancing plug is necessary! (refer to page 21)

Selection of possible applications

Industry, Power plant, Flue gas purification plant, Processing technology, Gas supply, Vapour facilities, Recycling facilities, Vacuum plant, Thermaloil-systems, General plant manufacturing, etc.

(other applications on request)

Selection of possible flow media

Steam, Gases, Hot water, Heat transfer oil, Ammonia, etc.

(other flow media on request)

alternative


Parts

Pos.	Description	Fig. 34. / 35.140....153 One-piece stem	Fig. 34. / 35.140....154 Two-piece stem
1	Body	GP240GH+N, 1.0619+N	
1.2	Seat	G19 9 NbSi, 1.4551	
2	Bonnet	GP240GH+N, 1.0619+N	
3	Plug *	X20Cr13+QT, 1.4021+QT (hardened)	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X20Cr13+QT, 1.4021+QT	
5	Handwheel *	≤DN125: St (cataphoretic coating) / ≥DN150: EN-GJS-400-15, EN-JS1030 (epoxy-coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	25CrMo4, 1.7218	
8	Hexagon nut	C35E, 1.1181	
9	Gasket *	Pure graphite (with CrNi-grooved)	
44	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists

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

Dimensions

	DN	65	80	100	125	150	200	250	300
L	(mm)	290	310	350	400	480			
H1 (One-piece stem)	(mm)	300	380	460	500	570			
H1 (Two-piece stem)	(mm)	335	390	505	550	605			
ØC (One-piece stem)	(mm)	175	225	300	300	400			
ØC (Two-piece stem)	(mm)	180	225	300	300	400			
Travel	(mm)	16	20	25	32	40			
Kvs-value	(m³/h)	64	90	135	215	325			
Zeta-value	--	7	8,1	8,8	8,4	7,7			

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

Face-to-face dimension ETE series 1 according to DIN EN 12982

Weights

Figure-No.	DN	65	80	100	125	150	200	250	300
34. / 35.140	(kg)	14,8	22	36,2	50	63			in preparation

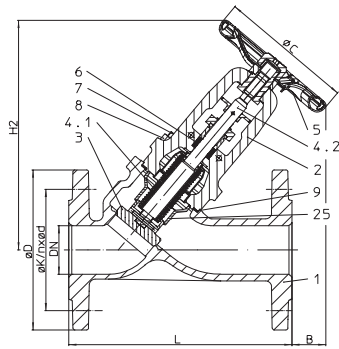
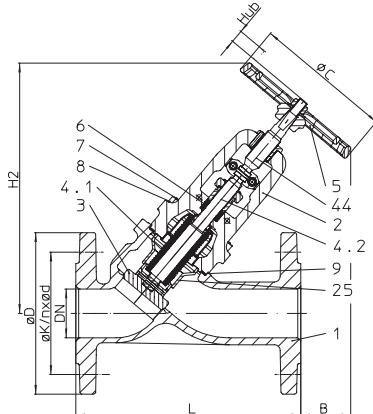
Stop valve - Y-pattern with flanges and bellows seal - Industrial version (Stainless steel)

Fig. 169....111
One-piece stem

Fig. 169....112
Two-piece stem

Figure-No.	Nominal pressure	Material	Nominal diameter
54.169....111	PN25	1.4408	DN15-200
55.169....111	PN40	1.4408	DN15-150
54.169....112	PN25	1.4408	DN15-200
55.169....112	PN40	1.4408	DN15-150

Test: • TA - Luft TÜV-Test-No. 973-10183778

At high differential pressures a balancing plug is necessary! (refer to page 21)

Selection of possible applications

Recycling facilities, Chemical industry, Processing technology, Process water installations, Installations with aggressive media, etc.

(other applications on request)

Selection of possible flow media

Aggressive media, etc.

(other flow media on request)

Parts

Pos.	Description	Fig. 54. / 55.169....111 One-piece stem	Fig. 54. / 55.169....112 Two-piece stem
1	Body	GX5CrNiMo19-11-2, 1.4408	
2	Bonnet	GX5CrNiMo19-11-2, 1.4408	
3	Plug *	X6CrNiMoTi17 12 2, 1.4571 / Stellite 6	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X6CrNiMoTi17 12 2, 1.4571	
5	Handwheel *	≤DN125: St (cataphoretic coating) / ≥DN150: EN-GJS-400-15, EN-JS1030 (epoxy-coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	A4-70	
8	Hexagon nut	A4	
9	Gasket *	Pure graphite (with CrNi-grooved)	
25	Guide bush	≤DN32: X6CrNiMoTi17 12 2, 1.4571 / ≥DN40: GX5CrNiMo19-11-2, 1.4408	
44	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists / The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

Dimensions

	DN	15	20	25	32	40	50	65	80	100	125	150	200
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	in preparation
H2 (One-piece stem)	(mm)	210	210	220	220	270	270	310	385	455	500	590	
H2 (Two-piece stem)	(mm)	225	225	230	230	285	285	365	400	490	535	615	
ØC (One-piece stem)	(mm)	125	125	125	125	150	150	175	225	300	300	400	
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160	180	225	300	300	400	
B (One-piece stem)	(mm)	110	85	85	70	95	65	50	125	185	170	180	
B (Two-piece stem)	(mm)	120	95	90	75	110	80	75	135	210	200	205	
Travel	(mm)	6	6	8	8	13	13	16	20	25	32	40	
Kvs-value	(m³/h)	6	9	14	19	32,5	48	83	119	190	300	450	
Zeta-value	--	2,2	3,2	3,2	4,6	3,9	4,3	4,1	4,6	4,4	4,3	4	

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

Standard-flange dimensions refer to page 25

Face-to-face dimension FTF Series 1 acc. to DIN EN 558

Weights

Figure-No.	DN	15	20	25	32	40	50	65	80	100	125	150	200
52. / 54.169	(kg)	4,6	5,1	6,2	7,3	9,5	13,2	18,8	26,8	43,7	53,8	69	in prep.

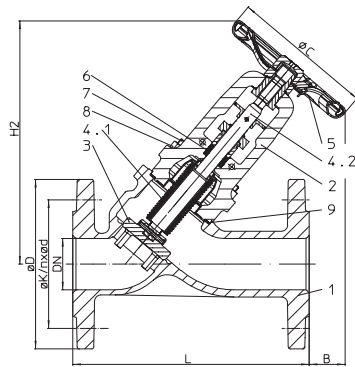
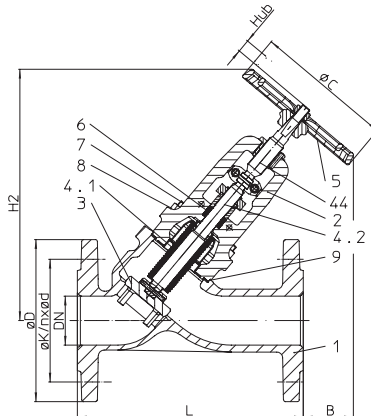
Stop valve - Y-pattern with flanges and bellows seal - Chemical version (Stainless steel)

**Fig. 169....153
One-piece stem**

**Fig. 169....154
Two-piece stem**

Figure-No.	Nominal pressure	Material	Nominal diameter
54.169....153	PN25	1.4408	DN15-200
55.169....153	PN40	1.4408	DN15-150
54.169....154	PN25	1.4408	DN15-200
55.169....154	PN40	1.4408	DN15-150

Test: • TA - Luft TÜV-Test-No. 973-10183778

At high differential pressures a balancing plug is necessary! (refer to page 21)

Selection of possible applications

Recycling facilities, Chemical industry, Process pipes, Processing technology, Process water installations, Installations with aggressive media, etc.

(other applications on request)

Selection of possible flow media

Aggressive media, Chemical products, etc.

(other flow media on request)

Parts

Pos.	Description	Fig. 54. / 55.169....153 One-piece stem	Fig. 54. / 55.169....154 Two-piece stem
1	Body	GX5CrNiMo19-11-2, 1.4408	
2	Bonnet	GX5CrNiMo19-11-2, 1.4408	
3	Plug *	X6CrNiMoTi17 12 2, 1.4571 / Stellite 6	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X6CrNiMoTi17 12 2, 1.4571	
5	Handwheel *	≤DN125: St (cathaphoretic coating) / ≥DN150: EN-GJS-400-15, EN-JS1030 (epoxy-coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	A4-70	
8	Hexagon nut	A4	
9	Gasket *	Pure graphite (with CrNi-grooved)	
44	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists

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

Dimensions

	DN	15	20	25	32	40	50	65	80	100	125	150	200
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	in preparation
H2 (One-piece stem)	(mm)	210	210	220	220	270	270	310	385	455	500	590	
H2 (Two-piece stem)	(mm)	225	225	230	230	285	285	365	400	490	535	615	
ØC (One-piece stem)	(mm)	125	125	125	125	150	150	175	225	300	300	400	
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160	180	225	300	300	400	
B (One-piece stem)	(mm)	110	85	85	70	95	65	50	125	185	170	180	
B (Two-piece stem)	(mm)	120	95	90	75	110	80	75	135	210	200	205	
Travel	(mm)	6	6	8	8	13	13	16	20	25	32	40	
Kvs-value	(m³/h)	5,5	8	12,5	17	28	42	72	100	150	239	360	
Zeta-value	--	2,7	4	4	5,8	5,2	5,7	5,5	6,5	7,1	6,8	6,2	

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

Standard-flange dimensions refer to page 25

Face-to-face dimension FTF Series 1 acc. to DIN EN 558

Weights

Figure-No.	DN	15	20	25	32	40	50	65	80	100	125	150	200
52. / 54.169	(kg)	4,6	5,1	6,2	7,3	9,5	13,2	18,8	26,8	43,7	53,8	69	in prep.

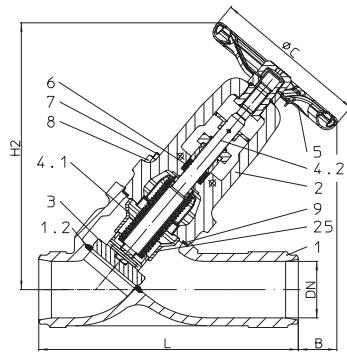
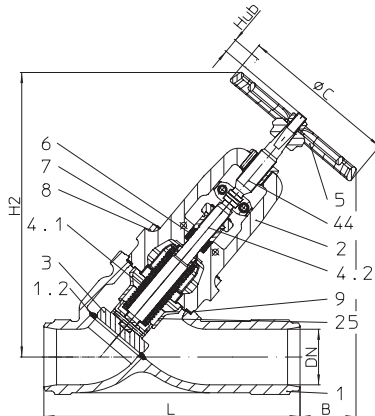
Stop valve - Y-pattern with butt weld ends and bellows seal - Industrial version (Cast steel)

Fig. 166....111
One-piece stem

Fig. 166....112
Two-piece stem

Figure-No.	Nominal pressure	Material	Nominal diameter
34.166....111	PN25	1.0619+N	DN200-300
35.166....111	PN40	1.0619+N	DN15-250
34.166....112	PN25	1.0619+N	DN200-300
35.166....112	PN40	1.0619+N	DN15-250
Butt weld ends according to DIN EN 12627 - 4 (refer to page 20)			
Test: • TA - Luft TÜV-Test-No. 973-10183778			
At high differential pressures a balancing plug is necessary! (refer to page 21)			

Selection of possible applications

Industry, Power plant, Flue gas purification plant, Processing technology, Gas supply, Vapour facilities, Recycling facilities, Vacuum plant, Thermaloil-systems, General plant manufacturing, etc.

(other applications on request)

Selection of possible flow media

Steam, Gases, Hot water, Heat transfer oil, Ammonia, etc.

(other flow media on request)

Parts

Pos.	Description	Fig. 34. / 35.166....111 One-piece stem	Fig. 34. / 35.166....112 Two-piece stem
1	Body	GP240GH+N, 1.0619+N	
1.2	Seat	G19 9 NbSi, 1.4551	
2	Bonnet	GP240GH+N, 1.0619+N	
3	Plug *	X20Cr13+QT, 1.4021+QT (hardened)	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X6CrNiMoTi17 12 2, 1.4571	
5	Handwheel *	≤DN125: St (cataphoretic coating) / ≥DN150: EN-GJS-400-15, EN-JS1030 (epoxy-coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	25CrMo4, 1.7218	
8	Hexagon nut	C35E, 1.1181	
9	Gasket *	Pure graphite (with CrNi-grooved)	
25	Guide bush	≤DN32: X6CrNiMoTi17 12 2, 1.4571 / ≥DN40: GX5CrNiMo19-11-2, 1.4408	
37	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists / The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

Dimensions

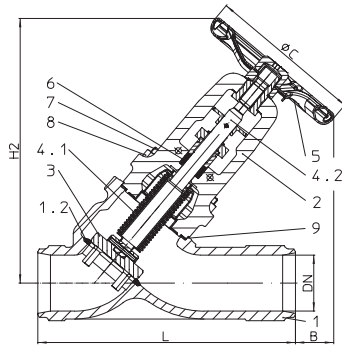
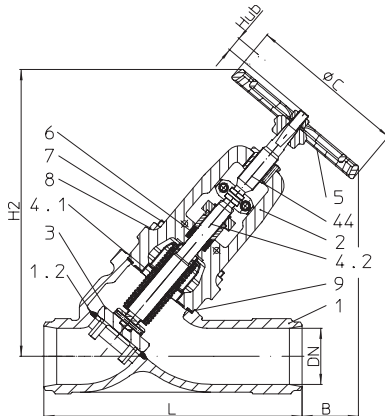
	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	in preparation		
H2 (One-piece stem)	(mm)	210	210	220	220	270	270	310	385	455	500	590			
H2 (Two-piece stem)	(mm)	225	225	230	230	285	285	365	400	490	535	615			
ØC (One-piece stem)	(mm)	125	125	125	125	150	150	175	225	300	300	400			
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160	180	225	300	300	400			
B (One-piece stem)	(mm)	110	85	85	70	95	65	50	125	185	170	180			
B (Two-piece stem)	(mm)	120	95	90	75	110	80	75	135	210	200	205			
Travel	(mm)	6	6	8	8	13	13	16	20	25	32	40			
Kvs-value	(m³/h)	6	9	14	19	32,5	48	83	119	190	300	450			
Zeta-value	--	2,2	3,2	3,2	4,6	3,9	4,3	4,1	4,6	4,4	4,3	4			

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

Face-to-face dimension ETE series 1 according to DIN EN 12982

Weights

Figure-No.	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
34. / 35.166	(kg)	3,4	3,6	4,2	4,4	5,5	8,8	11,8	16,5	42,5	52,5	69	in preparation		

Stop valve - Y-pattern with butt weld ends and bellows seal - Chemical version (Cast steel)

Fig. 166....153
One-piece stem

Fig. 166....154
Two-piece stem
Parts

Pos.	Description	Fig. 34. / 35.166....153 One-piece stem	Fig. 34. / 35.166....154 Two-piece stem
1	Body	GP240GH+N, 1.0619+N	
1.2	Seat	G19 9 NbSi, 1.4551	
2	Bonnet	GP240GH+N, 1.0619+N	
3	Plug *	X20Cr13+QT, 1.4021+QT (hardened)	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X6CrNiMoTi17 12 2, 1.4571	
5	Handwheel *	≤DN125: St (cataphoretic coating) / ≥DN150: EN-GJS-400-15, EN-JS1030 (epoxy-coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	25CrMo4, 1.7218	
8	Hexagon nut	C35E, 1.1181	
9	Gasket *	Pure graphite (with CrNi-grooved)	
44	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists

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

Dimensions

	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	in preparation		
H2 (One-piece stem)	(mm)	210	210	220	220	270	270	310	385	455	500	590			
H2 (Two-piece stem)	(mm)	225	225	230	230	285	285	365	400	490	535	615			
ØC (One-piece stem)	(mm)	125	125	125	125	150	150	175	225	300	300	400			
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160	180	225	300	300	400			
B (One-piece stem)	(mm)	110	85	85	70	95	65	50	125	185	170	180			
B (Two-piece stem)	(mm)	120	95	90	75	110	80	75	135	210	200	205			
Travel	(mm)	6	6	8	8	13	13	16	20	25	32	40			
Kvs-value	(m³/h)	5,5	8	12,5	17	28	42	72	100	150	239	360			
Zeta-value	--	2,7	4	4	5,8	5,2	5,7	5,5	6,5	7,1	6,8	6,2			

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

Face-to-face dimension ETE series 1 according to DIN EN 12982

Weights

Figure-No.	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
34. / 35.166	(kg)	3,4	3,6	4,2	4,4	5,5	8,8	11,8	16,5	42,5	52,5	69	in preparation		

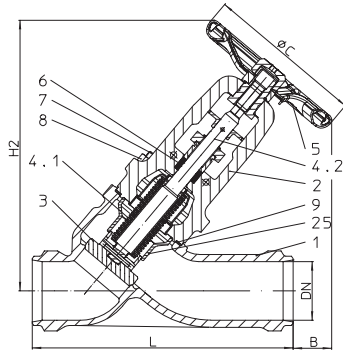
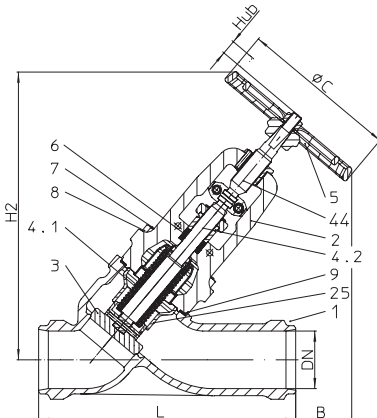
Stop valve - Y-pattern with butt weld ends and bellows seal - Industrial version (Stainless steel)

Fig. 166....111
One-piece stem

Fig. 166....112
Two-piece stem

Figure-No.	Nominal pressure	Material	Nominal diameter
54.166....111	PN25	1.4408	DN200
55.166....111	PN40	1.4408	DN15-150
54.166....112	PN25	1.4408	DN200
55.066....112	PN40	1.4408	DN15-150

Butt weld ends according to DIN EN 12627 - 4 (refer to page 20)

Test: • TA - Luft TÜV-Test-No. 973-10183778

At high differential pressures a balancing plug is necessary! (refer to page 21)

Selection of possible applications

Recycling facilities, Chemical industry, Processing technology, Process water installations, Installations with aggressive media, etc.

(other applications on request)

Selection of possible flow media

Aggressive media, etc.

(other flow media on request)

Parts

Pos.	Description	Fig. 54. / 55.166....111 One-piece stem	Fig. 54. / 55.166....112 Two-piece stem
1	Body	GX5CrNiMo19-11-2, 1.4408	
2	Bonnet	GX5CrNiMo19-11-2, 1.4408	
3	Plug *	X6CrNiMoTi17 12 2, 1.4571 / Stellite 6	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X6CrNiMoTi17 12 2, 1.4571	
5	Handwheel *	≤DN125: St (cataphoretic coating) / ≥DN150: EN-GJS-400-15, EN-JS1030 (epoxy-coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	A4-70	
8	Hexagon nut	A4	
9	Gasket *	Pure graphite (with CrNi-grooved)	
25	Guide bush	≤DN32: X6CrNiMoTi17 12 2, 1.4571 / ≥DN40: GX5CrNiMo19-11-2, 1.4408	
44	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists

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

Dimensions

	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	in preparation		
H2 (One-piece stem)	(mm)	210	210	220	220	270	270	310	385	455	500	590			
H2 (Two-piece stem)	(mm)	225	225	230	230	285	285	365	400	490	535	615			
ØC (One-piece stem)	(mm)	125	125	125	125	150	150	175	225	300	300	400			
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160	180	225	300	300	400			
B (One-piece stem)	(mm)	110	85	85	70	95	65	50	125	185	170	180			
B (Two-piece stem)	(mm)	120	95	90	75	110	80	75	135	210	200	205			
Travel	(mm)	6	6	8	8	13	13	16	20	25	32	40			
Kvs-value	(m³/h)	6	9	14	19	32,5	48	83	119	190	300	450			
Zeta-value	--	2,2	3,2	3,2	4,6	3,9	4,3	4,1	4,6	4,4	4,3	4			

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

Face-to-face dimension ETE series 1 according to DIN EN 12982

Weights

Figure-No.	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
54. / 55.166	(kg)	3,8	4,2	4,8	5,6	7,8	10	12,8	18,9	45	55,3	73	in preparation		

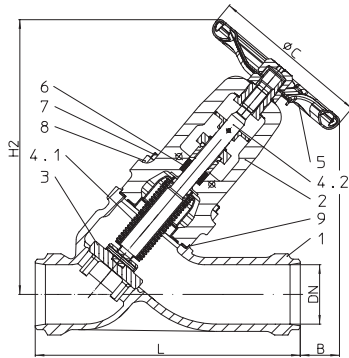
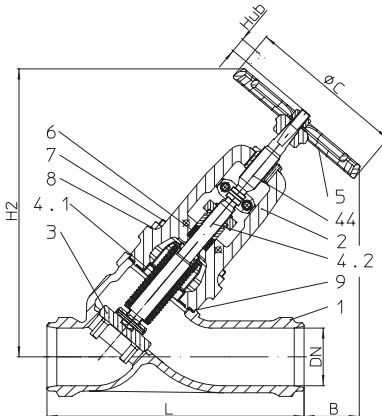
Stop valve - Y-pattern with butt weld ends and bellows seal - Chemical version (Stainless steel)

Fig. 166....153
One-piece stem

Fig. 166....154
Two-piece stem

Figure-No.	Nominal pressure	Material	Nominal diameter
54.166....153	PN25	1.4408	DN200
55.166....153	PN40	1.4408	DN15-150
54.166....154	PN25	1.4408	DN200
55.166....154	PN40	1.4408	DN15-150

Butt weld ends according to DIN EN 12627 - 4 (refer to page 20)

Test: • TA - Luft TÜV-Test-No. 973-10183778

At high differential pressures a balancing plug is necessary! (refer to page 21)

Selection of possible applications

Recycling facilities, Chemical industry, Process pipes, Processing technology, Process water installations, Installations with aggressive media, etc.

(other applications on request)

Selection of possible flow media

Aggressive media, Chemical products, etc.

(other flow media on request)

Parts

Pos.	Description	Fig. 54. / 55.166....153 One-piece stem	Fig. 54. / 55.166....154 Two-piece stem
1	Body	GX5CrNiMo19-11-2, 1.4408	
2	Bonnet	GX5CrNiMo19-11-2, 1.4408	
3	Plug *	X6CrNiMoTi17 12 2, 1.4571 / Stellite 6	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X6CrNiMoTi17 12 2, 1.4571	
5	Handwheel *	≤DN125: St (cataphoretic coating) / ≥DN150: EN-GJS-400-15, EN-JS1030 (epoxy-coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	A4-70	
8	Hexagon nut	A4	
9	Gasket *	Pure graphite (with CrNi-grooved)	
44	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists

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

Dimensions

	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	in preparation		
H2 (One-piece stem)	(mm)	210	210	220	220	270	270	310	385	455	500	590			
H2 (Two-piece stem)	(mm)	225	225	230	230	285	285	365	400	490	535	615			
ØC (One-piece stem)	(mm)	125	125	125	125	150	150	175	225	300	300	400			
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160	180	225	300	300	400			
B (One-piece stem)	(mm)	110	85	85	70	95	65	50	125	185	170	180			
B (Two-piece stem)	(mm)	120	95	90	75	110	80	75	135	210	200	205			
Travel	(mm)	6	6	8	8	13	13	16	20	25	32	40			
Kvs-value	(m³/h)	5,5	8	12,5	17	28	42	72	100	150	239	360			
Zeta-value	--	2,7	4	4	5,8	5,2	5,7	5,5	6,5	7,1	6,8	6,2			

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

Face-to-face dimension ETE series 1 according to DIN EN 12982

Weights

Figure-No.	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
54. / 55.166	(kg)	3,8	4,2	4,8	5,6	7,8	10	12,8	18,9	45	55,3	73	in preparation		

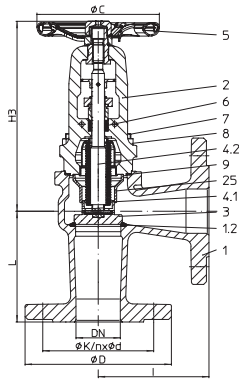
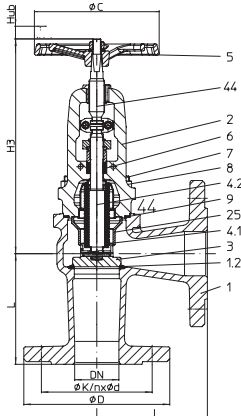
Stop valve - angle pattern with flanges and bellows seal - Industrial version (Cast steel)

Fig. 147....111
One-piece stem

Fig. 147....112
Two-piece stem

Figure-No.	Nominal pressure	Material	Nominal diameter
34.147....111	PN25	1.0619+N	DN200-300
35.147....111	PN40	1.0619+N	DN15-150
34.147....112	PN25	1.0619+N	DN200-300
35.147....112	PN40	1.0619+N	DN15-150

Test: • TA - Luft TÜV-Test-No. 973-10183778

At high differential pressures a balancing plug is necessary! (refer to page 21)

Selection of possible applications

Industry, Power plant, Flue gas purification plant, Processing technology, Gas supply, Vapour facilities, Recycling facilities, Vacuum plant, Thermaloil-systems, General plant manufacturing, etc.

(other applications on request)

Selection of possible flow media

Steam, Gases, Hot water, Heat transfer oil, Ammonia, etc.

(other flow media on request)

Parts

Pos.	Description	Fig. 34. / 35.147....111 One-piece stem	Fig. 34. / 35.147....112 Two-piece stem
1	Body	GP240GH+N, 1.0619+N	
1.2	Seat	G19 9 NbSi, 1.4551	
2	Bonnet	GP240GH+N, 1.0619+N	
3	Plug *	X20Cr13+QT, 1.4021+QT (hardened)	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X6CrNiMoTi17 12 2, 1.4571	
5	Handwheel *	≤DN125: St (cataphoretic coating) / ≥DN150: EN-GJS-400-15, EN-JS1030 (epoxy-coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	25CrMo4, 1.7218	
8	Hexagon nut	C35E, 1.1181	
9	Gasket *	Pure graphite (with CrNi-grooved)	
25	Guide bush	≤DN32: X6CrNiMoTi17 12 2, 1.4571 / ≥DN40: GX5CrNiMo19-11-2, 1.4408	
37	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists

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

Dimensions

	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
I	(mm)	90	95	100	105	115	125	145	155	175	200	225	in preparation		
H3 (One-piece stem)	(mm)	210	210	215	215	255	255	275	350	420	450	510			
H3 (Two-piece stem)	(mm)	225	225	225	225	275	275	310	365	465	500	545			
ØC (One-piece stem)	(mm)	125	125	125	125	150	150	175	225	300	300	400			
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160	180	225	300	300	400			
Travel	(mm)	6	6	8	8	13	13	16	20	25	32	40			
Kvs-value	(m³/h)	6	9	14	19	33	49	85	129	220	350	530			
Zeta-value	--	2,2	3,2	3,2	4,6	3,8	4,2	3,9	3,9	3,3	3,2	2,9			

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

Standard-flange dimensions refer to page 25

Face-to-face dimension CTF Series 8 acc. to DIN EN 558

Weights

Figure-No.	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
34. / 35.147	(kg)	5,2	7	7,5	8,3	11,1	14,2	20,3	27	46,5	59	67	in preparation		

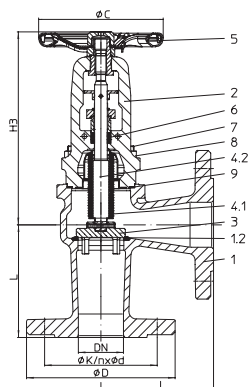
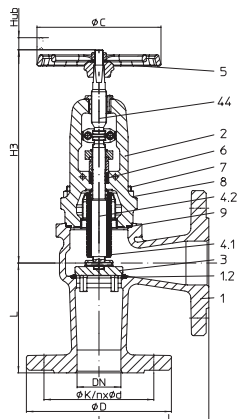
Stop valve - angle pattern with flanges and bellows seal - Chemical version (Cast steel)

Fig. 147....153
One-piece stem

Fig. 147....154
Two-piece stem

Figure-No.	Nominal pressure	Material	Nominal diameter
34.147....153	PN25	1.0619+N	DN200-300
35.147....153	PN40	1.0619+N	DN15-150
34.147....154	PN25	1.0619+N	DN200-300
35.147....154	PN40	1.0619+N	DN15-150

Test: • TA - Luft TÜV-Test-No. 973-10183778

At high differential pressures a balancing plug is necessary! (refer to page 21)

Selection of possible applications

Industry, Power plant, Flue gas purification plant, Processing technology, Gas supply, Vapour facilities, Recycling facilities, Vacuum plant, Thermaloil-systems, General plant manufacturing, etc.

(other applications on request)

Selection of possible flow media

Steam, Gases, Hot water, Heat transfer oil, Ammonia, etc.

(other flow media on request)

Parts

Pos.	Description	Fig. 34. / 35.147....153 One-piece stem	Fig. 34. / 35.147....154 Two-piece stem
1	Body	GP240GH+N, 1.0619+N	
1.2	Seat	G19 9 NbSi, 1.4551	
2	Bonnet	GP240GH+N, 1.0619+N	
3	Plug *	X20Cr13+QT, 1.4021+QT (hardened)	
4.1	Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2	Stem	X6CrNiMoTi17 12 2, 1.4571	
5	Handwheel *	≤DN125: St (cataphoretic coating) / ≥DN150: EN-GJS-400-15, EN-JS1030 (epoxy-coating)	EN-GJS-400-15, EN-JS1030 (epoxy-coating)
6	Packing ring	Pure graphite	
7	Stud	25CrMo4, 1.7218	
8	Hexagon nut	C35E, 1.1181	
9	Gasket *	Pure graphite (with CrNi-grooved)	
44	Stem, top	--	X39CrMo17-1+QT, 1.4122+QT

* Spare part

Information / restriction of technical rules need to be observed!

Operating instructions can be ordered by phone +49 (0)5207 / 994-0 or fax +49 (0)5207 / 994-158 or -159.

A production allowance acc. to TRB 801 No. 45 exists

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

Dimensions

	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
l	(mm)	90	95	100	105	115	125	145	155	175	200	225	in preparation		
H3 (One-piece stem)	(mm)	210	210	215	215	255	255	275	350	420	450	510			
H3 (Two-piece stem)	(mm)	225	225	225	225	275	275	310	365	465	500	545			
ØC (One-piece stem)	(mm)	125	125	125	125	150	150	175	225	300	300	400			
ØC (Two-piece stem)	(mm)	140	140	140	140	160	160	180	225	300	300	400			
Travel	(mm)	6	6	8	8	13	13	16	20	25	32	40			
Kvs-value	(m³/h)	5,5	8	12,5	17	28	42	80	100	155	245	370			
Zeta-value	--	2,7	4	4	5,8	5,2	5,7	4,5	6,5	6,6	6,5	5,9			

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

Standard-flange dimensions refer to page 25

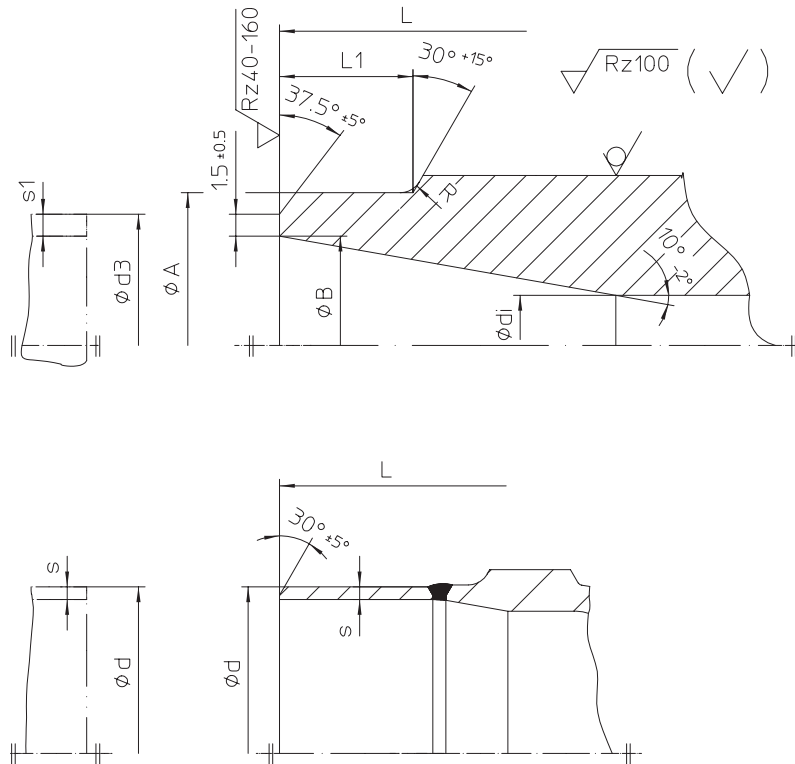
Face-to-face dimension CTF Series 8 acc. to DIN EN 558

Weights

Figure-No.	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
34. / 35.147	(kg)	5,2	7	7,5	8,3	11,1	14,2	20,3	27	46,5	59	67	in preparation		

L = Face-to-face dimension

Edge shaping acc. to DIN EN ISO 5817


Butt weld ends according to DIN EN 12627 - 4

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

Shoed ends of P235GH (Pipe connection ≙ welding neck flanges)

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

Face-to-face dimension ETE series 1 according to DIN EN 12982.

Butt weld ends according to DIN EN 12627 - 4.

Weld joint according to DIN EN 29692 code numer 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.

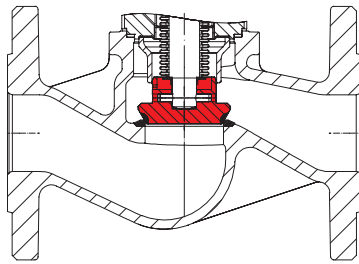
The material used for ARI valves with shoed ends (DN 65-200) P235GH according to DIN EN 10216-2.

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

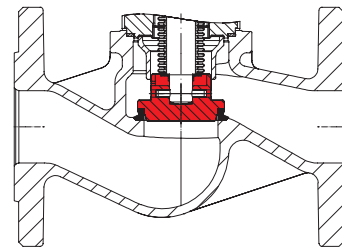
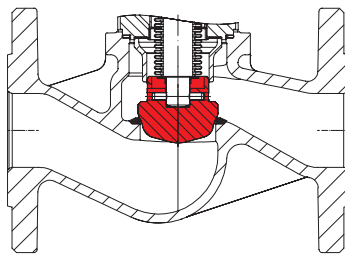
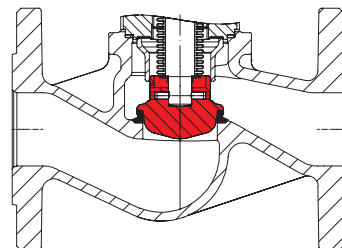
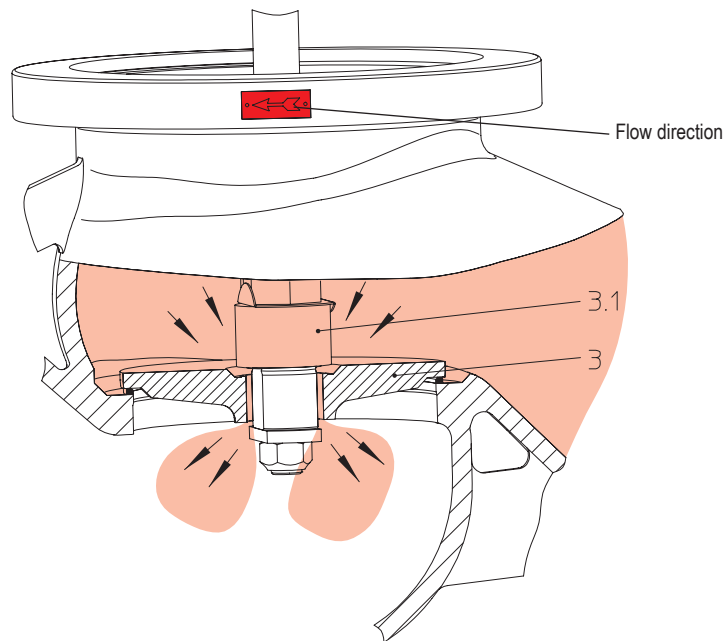
Lime based electrodes with an appropriate composite material should be used as filler material for welding.

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).



Isolation plug with marginal seat; stellite seat and plug'


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

 Regulating plug with marginal seat
 (for max. permissible ΔP refer to: Flow diagram)

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


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 valves stated in the table, the valve can be opened by turning the valve further with normal manual force.

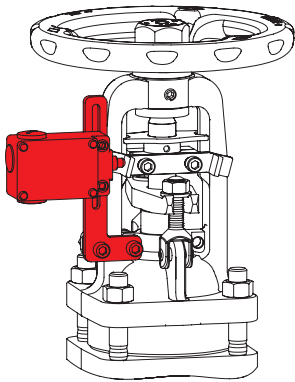
Balancing plugs are fully effective only in closed systems.

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

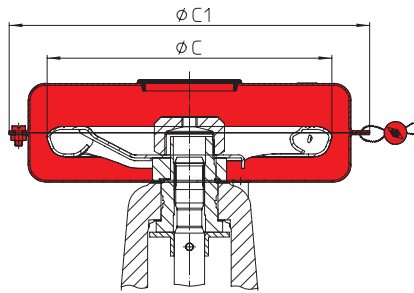
A bypass line or some other arrangement is necessary if too much time is required for pressure equalization owing to the volume in the piping system.

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



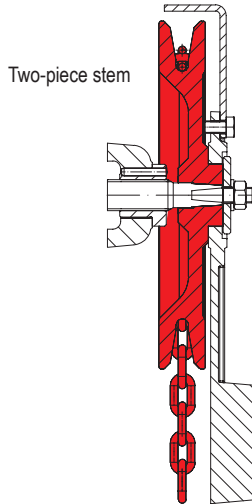
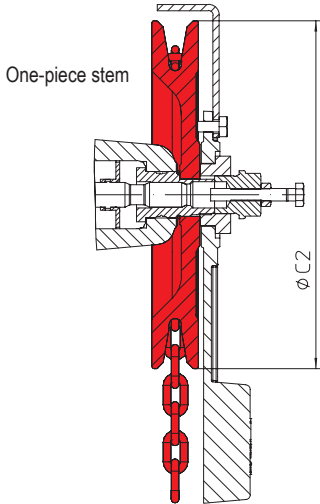
Limit switch



Hood valve acc.to DIN EN 12828
(tamper-proof handwheel cover)

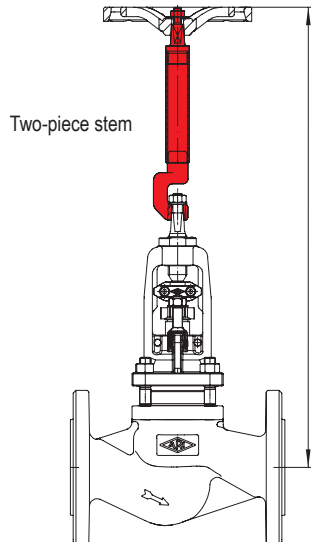
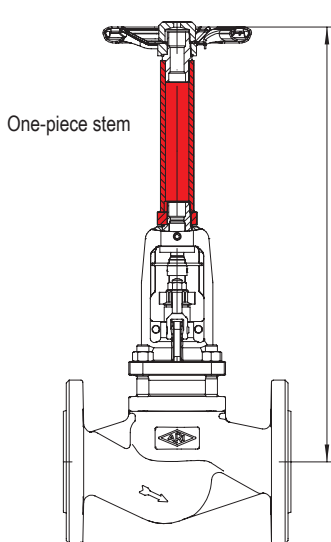
Size	DN	ϕC	$\phi C1$
	(mm)	(mm)	(mm)
I	15-32	126	170
II	40-80	150	190
III	100-150	225	330

Handwheel- ϕ from DN 65 reduced!

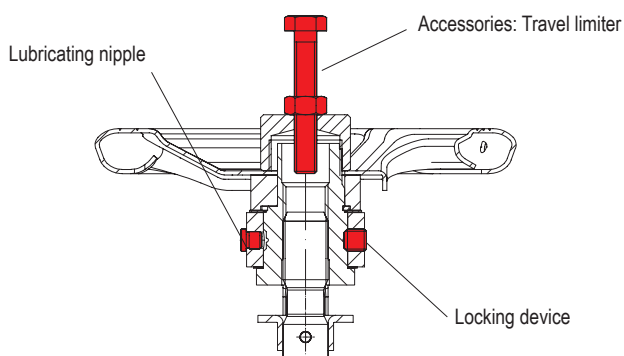


Chain wheel

DN	$\phi C2$	Weight
(mm)	(mm)	(kg)
15-32	180	2,5
40-80	220	7
100-150	260	8,9
200-400	300	11



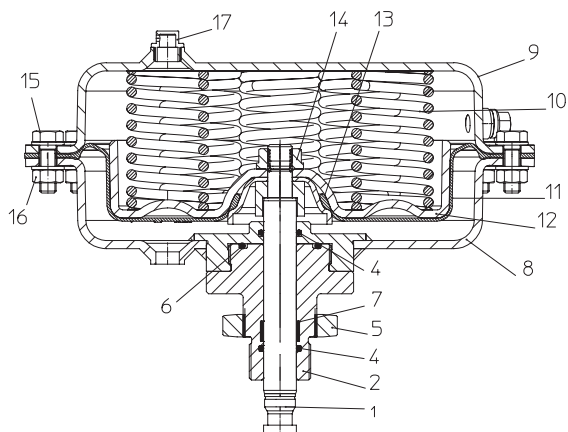
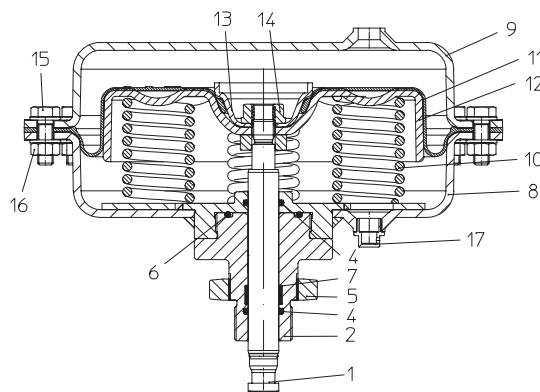
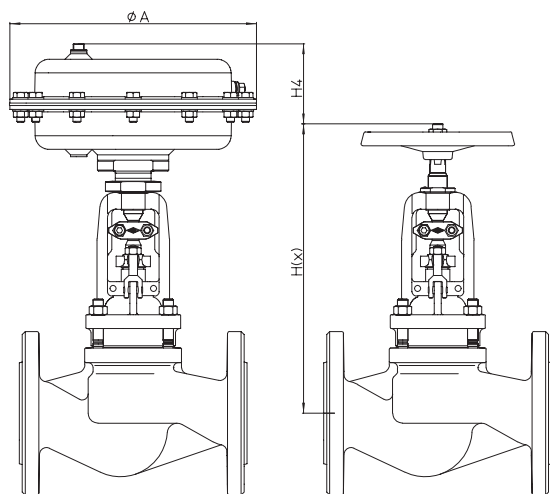
Stem extension (please specify height in your order!)



Lubricating nipple / Locking device / Travel limiter (only construction with one-piece stem)

Travel limiter
(Accessories are not included !)

DN	Hexagon bolt
(mm)	(mm x mm)
15-80	M8 x 55
100	M12 x 70
125-150	M12 x 80
200	M12 x 100
250-300	M12 x 120
350-400	M16 x 160

Pneumatic actuator ARI-FA

Pneumatic actuator ARI-FA
Spring closes

Pneumatic actuator ARI-FA
Spring opens on air failure

Important:

The pneumatic actuator ARI-FA can be combined with all ARI-FABA-Supra versions with two-piece stem!

Max. medium temperatur in the valve 250°C !
Parts

Pos.	Description	Material
1	Stem	X20Cr13+QT, 1.4021+QT
2	Head	X20Cr13+QT, 1.4021+QT
4	O-ring *	NBR
5	Lock nut	5.8 - A2G
6	O-ring *	NBR
7	Guiding band *	PTFE ->25%C
8	Lower diaphragm casing	DD13+QT, 1.0335+QT (powder coated)
9	Upper diaphragm casing	DD13+QT, 1.0335+QT (powder coated)
10	Spring *	FDSiCr
11	Rolling diaphragm *	NBR + webbing
12	Diaphragm plate	DD13+QT, 1.0335+QT (Fe/Zn12C)
13	Diaphragm flange	DD13+QT, 1.0335+QT (Fe/Zn12C)
14	Collar nut *	8 - A4G
15	Hexagon bolt	8.8 - A4G
16	Hexagon nut	8 - A4G
17	Vent plug *	Polyäthylen

* Spare part

Type of actuator		FA160	FA250	FA400	FA800
$\varnothing A$	(mm)	210	250	300	405
H(x)	(mm)	refert to page 2 -19			
max. H4	(mm)	90	105	120	165
max. pressure	(bar)	6	6	6	6
Weight (actuator)	(kg)	6,5	9	17	50

max. permissible closing pressures on flow-to-open P2 = 0 (Observe regulations, refer to page 25.)

Spring closes													
DN		15	20	25	32	40	50	65	80	100	125	150	
Travel (mm)		6	6	8	8	13	13	16	20	25	32	40	
Actuator FA160	Air supply pressure min. (bar)	4	40	40	26,7	18							
		4,5				40	20,5	11,1	1,6				
		4,5							14,8	6,5	1,4		
		5									17,4	8,9	4,3
Req. air supply press. for pneumatic actuators FA:		max. permissible				6 bar							

max. permissible closing pressures on flow-to-open P2 = 0 (Observe regulations, refer to page 25.)

Spring opens on air failure												
DN		15	20	25	32	40	50	65	80	100	125	150
Travel (mm)		6	6	8	8	13	13	16	20	25	32	40
Actuator FA160	Air supply pressure min. (bar)	3	40	40	21,1	13,7						
		4	40	40	40	31,9						
		5	40	40	40	40						
		6	40	40	40	40						
Actuator FA250	Air supply pressure min. (bar)	3				38,4	13,8	6,9				
		4				40	30	17,3	6,2			
		5				40	40	27,8	12,5			
		6				40	40	38,2	18,7			
Actuator FA400	Air supply pressure min. (bar)	3						9,6	3,9			
		4						19,6	10,5	4,7		
		5							29,6	17,1	9	
		6							39,5	23,8	13,2	
Actuator FA800	Air supply pressure min. (bar)	3								10,4	4,5	1,8
		4								18,9	10	5,6
		5								27,5	15,5	9,4
		6								36	21	13,2
Req. air supply press. for pneumatic actuators FA:		max. permissible				6 bar						

Standard-flange dimensions

Flanges acc. to DIN EN 1092-1/-2 (Flangeholes / -thickness tol. acc. To DIN 2533/2544/2545)

DN		(mm)	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
PN25	ØD	(mm)	95	105	115	140	150	165	185	200	235	270	300	360	425	485	555	620	730
PN25	ØK	(mm)	65	75	85	100	110	125	145	160	190	220	250	310	370	430	490	550	660
PN25	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
PN40	ØK	(mm)	65	75	85	100	110	125	145	160	190	220	250	320	385	450	510	585	670
PN40	n x Ød	(mm)	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x30	12x33	16x33	16x36	16x39	20x42

Pressure-temperature-ratings acc. to DIN EN 1092-1

Material	PN		-60°C to <-10°C*	-10°C to 50°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
		bar										
1.0619+N	25	bar	18,7	25	23,3	21,7	19,4	17,8	16,1	15	14,4	13,9
1.0619+N	40	bar	30	40	37,3	34,7	30,2	28,4	25,8	24	23,1	22,2
1.0460	25	bar	18,7	25	23,3	31,7	19,4	17,8	16,1	15	14,4	10
1.0460	40	bar	30	40	37,3	34,7	30,2	28,4	25,8	24	23,1	16
1.4408	25	bar	25	25	23,3	21,1	19,4	18,3	17,2	16,7	16	--
1.4408	40	bar	40	40	37,3	33,8	31,1	29,3	27,6	26,7	25,6	--
1.4581	25	bar	12,5	25	24,4	22,8	21,3	20,3	19,7	18,8	18,2	--
1.4581	40	bar	20	40	39,1	36,4	34,1	32,5	31,1	30	29,2	--

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

* Studs and nuts made of A4-70 (at temperatures below -10°C)

Please indicate when ordering

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

Example:

Figure 35.146; nominal pressure PN40; nominal diameter DN100.

 Dimensions in mm
 Weights in kg
 1 bar $\hat{=}$ 10⁵ Pa $\hat{=}$ 0,1 MPa
 Kvs in m³/h



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