

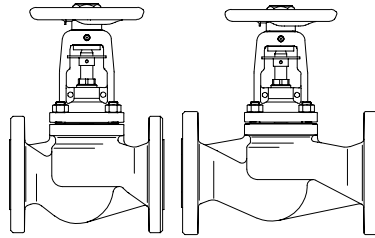
Free of maintenance stop valve with bellow seal - metallic sealing

ARI-FABA®-Plus ANSI

Class 150 / Class 300

Straight through with flanges

- EN ISO 15848-1 / TA - Luft
- TÜV-Test-No. TA 07 2016 C04



SA216WCB

Fig. 041

Page 2

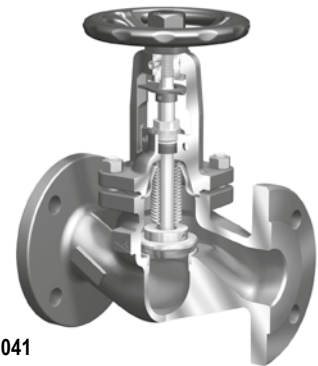


Fig. 041

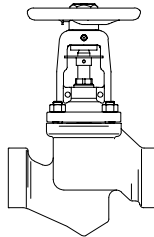
ARI-FABA®-Plus ANSI

Class 300

Straight through with screwed sockets

Straight through with socket weld ends

- EN ISO 15848-1 / TA - Luft
- TÜV-Test-No. TA 07 2016 C04



SA105

Fig. 049

Page 3

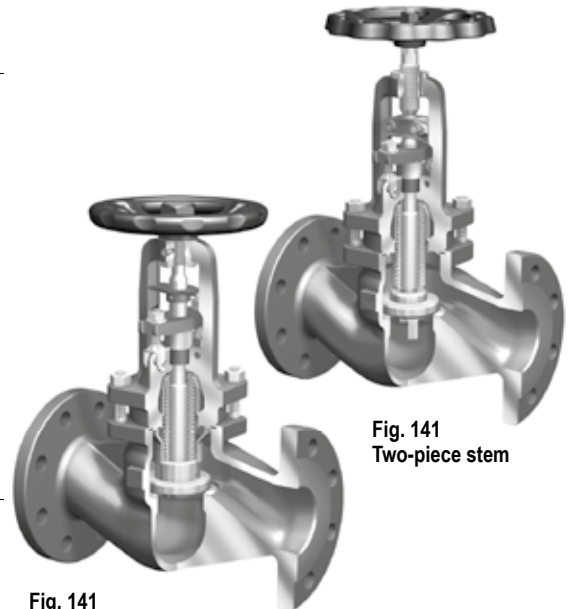


Fig. 141
Two-piece stem

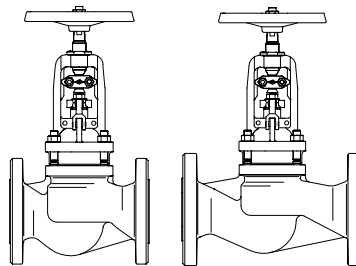
ARI-FABA®-Supra I ANSI

ARI-FABA®-Supra C ANSI

Class 150 / Class 300

Straight through with flanges

- EN ISO 15848-1 / TA - Luft
- TÜV-Test-No. TA 07 2016 C04



SA216WCB

Fig. 141

Page 4

Fig. 141
One-piece stem

ARI-FABA®-Supra I ANSI

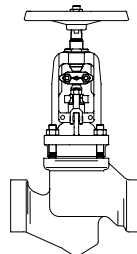
ARI-FABA®-Supra C ANSI

Class 300

Straight through with screwed sockets

Straight through with socket weld ends

- EN ISO 15848-1 / TA - Luft
- TÜV-Test-No. TA 07 2016 C04



SA105

Fig. 149

Page 6

Features:

- Double wall bellows seal as standard
- Plug with marginal seat
- Stem with fine thread
- Flat lubricating nipple
- Locking device, countersunk
- Bonnet optimised for accessories
- Secondary sealing: gland packing
- Position indicator as standard
- Non-rotation lock for each nominal diameter

Additional features ARI-FABA®-Supra:

- 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
- Welded seat
- Actuator retrofitting

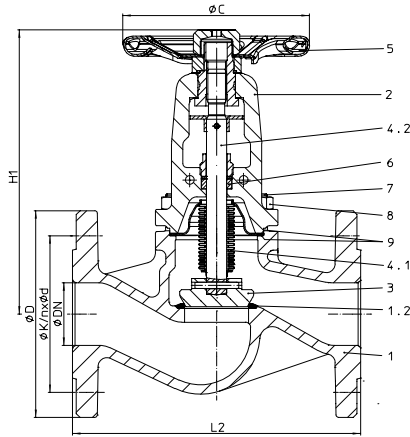
Stop valve - straight through with flanges and bellows seal - Class 150 / 300 (SA216WCB)


Figure-No.	Nominal pressure	Material	Nominal diameter
32.041	ANSI150	SA216WCB	NPS 1/2" - 10"
35.041	ANSI300	SA216WCB	NPS 1/2" - 10"

Test:	• EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 07 2016 C04
-------	--

Flanges:	• acc. to ASME / ANSI B16.5
----------	-----------------------------

Plug design:	• Plug with marginal seat standard
--------------	------------------------------------

At high differential pressures a balancing plug is necessary! (refer to page 8)	
--	--

Parts			
Pos.	Sp.p.	Description	Fig. 32. / 35.041
1		Body	SA216WCB
1.2		Seat	E347-16
2		Bonnet	SA216WCB
3	x	Plug	≤ NPS 8": SA276Gr.420 ¹⁾ (hardened) / NPS 10": SA516Gr.60 / Stellite 21
4		Spindle unit	
4.1	x	Bellows seal	SA240Gr.316Ti
4.2		Stem	SA276Gr.420 ¹⁾
5	x	Handwheel	≤ NPS 4": A366 (cataphoretic coating) / ≥ NPS 6": SA278Class40 (epoxy-coating)
6		Packing ring	Pure graphite
7		Stud	SA193-B7
8		Hexagon nut	SA194-2H
9	x	Gasket	Pure graphite (CrNi laminated with graphite)
L Spare parts			

¹⁾ Heat treatment acc. to EN

NPS	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"
-----	------	------	----	--------	----	--------	----	----	----	----	-----

Face-to-face dimension acc. to ASME B16.10													
L2	ANSI150	(in)	4.25	4.62	5	6.5	8	8.5	9.5	11.5	16	19.5	24.5
	ANSI300	(in)	6	7	8	9	10.5	11.5	12.5	14	17.5	22	24.5

Dimensions												Standard-flange dimensions refer to page 12	
H1		(in)	8.07	8.07	8.27	8.86	9.06	9.65	10.43	14.37	16.73	21.65	28.35
ØC		(in)	4.92	4.92	4.92	5.91	5.91	6.89	8.86	11.81	15.75	20.47	20.47
Travel		(in)	0.24	0.24	0.31	0.51	0.51	0.63	0.79	0.98	1.57	1.97	2.76
Cv-value	ANSI150	(gal/min)	5.6	7.7	13	31	48	82	117	179	441	712	1143
Zeta-value	ANSI150	--	3.5	5.9	5.1	5.8	5.9	5.8	6.5	6.8	5.7	6.9	6.5
Cv-value	ANSI300	(gal/min)	5.3	7.2	12	29	43	75	105	170	405	675	1090
Zeta-value	ANSI300	--	2.9	4.9	4.3	5	5.4	5.1	5.9	5.5	4.9	5.6	5.2

Weights												
32.041	(lbs)	11	12	13	14	26	46	54	89	172	370	575
35.041	(lbs)	12	14	19	21	33	51	64	108	207	465	699

Information / restriction of technical rules need to be observed!

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

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.

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

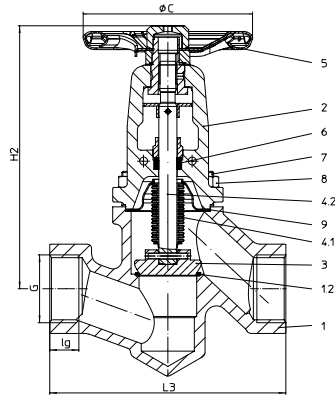
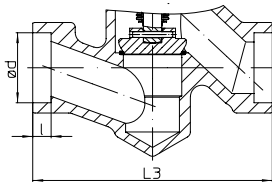
Stop valve in straightway form with screwed sockets / Socket weld ends and Bellows seal - Class 300 (SA105)

Fig. 049....2 with screwed sockets

Fig. 049....3 with socket weld ends

Figure-No.	Nominal pressure	Material	Nominal diameter
45.049....2	ANSI300	SA105	NPS 1/2" - 2"

Screwed sockets:	• acc. to DIN ISO 228 (BSP) or • acc. to ASME / ANSI B1.20.1 (NPT) (refer to page 12)
------------------	---

Figure-No.	Nominal pressure	Material	Nominal diameter
45.049....3	ANSI300	SA105	NPS 1/2" - 2"

Socket weld ends:	• acc. to ASME / ANSI B16.11 (refer to page 12)
-------------------	--

Test:	• EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 07 2016 C04
-------	--

Plug design:	• Plug with marginal seat standard
--------------	------------------------------------

Parts			
Pos.	Sp.p.	Description	Fig. 45.049....2 / 45.049....3
1		Body	SA105
1.2		Seat	E347-16
2		Bonnet	SA216WCB
3	x	Plug	SA276Gr.420 ¹⁾ (hardened)
4		Spindle unit	
4.1	x	Bellows seal	SA240Gr.316Ti
4.2		Stem	SA276Gr.420 ¹⁾
5	x	Handwheel	A366 (cataphoretic coating)
6		Packing ring	Pure graphite
7		Stud	SA193-B7
8		Hexagon nut	SA194-2H
9	x	Gasket	Pure graphite (CrNi laminated with graphite)
L Spare parts			

¹⁾ Heat treatment acc. to EN

NPS	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
-----	------	------	----	--------	--------	----

Face-to-face dimension		Screwed socket dimensions and socket weld end dimensions refer to page 12					
L3	(in)	4.61	4.61	5.47	7.32	7.32	8.23

Dimensions							
H2	(in)	7.99	7.99	8.46	9.06	9.06	9.45
ØC	(in)	4.92	4.92	4.92	5.91	5.91	5.91
Travel	(in)	0.24	0.24	0.31	0.51	0.51	0.51
Cv-value	(gal/min)	3.6	6.4	10	15	23	30
Zeta-value	--	8.4	8.4	8.4	10.2	10.2	14.8

Weights							
45.049....2 /3	(lbs)	6.4	6.4	8.2	13	13	16

Information / restriction of technical rules need to be observed!

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

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.

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

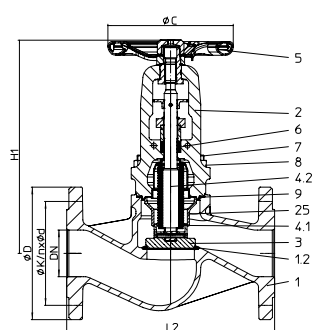
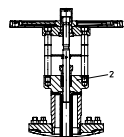
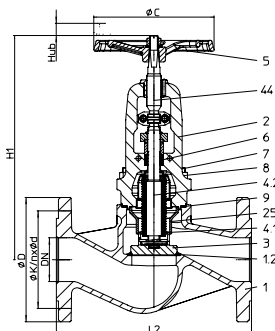
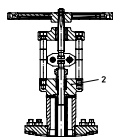
Stop valve - straight through with flanges and bellows seal - Industrial version (SA216WCB)

Fig. 141....111 NPS 1/2"-6"
One-piece stem

Bonnet NPS 8"-10"
One-piece stem

Fig. 141....112 NPS 1/2"-6"
Two-piece stem

Bonnet NPS 8"-10"
Two-piece stem

Figure-No.	Nominal pressure	Material	Nominal diameter
32.141....111	ANSI150	SA216WCB	NPS 1/2" - 10"
35.141....111	ANSI300	SA216WCB	NPS 1/2" - 10"
32.141....112	ANSI150	SA216WCB	NPS 1/2" - 10"
35.141....112	ANSI300	SA216WCB	NPS 1/2" - 10"

Test:	• EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 07 2016 C04
-------	---

Flanges:	• acc. to ASME / ANSI B16.5
----------	-----------------------------

Plug design:	• Plug with marginal seat standard
--------------	------------------------------------

At high differential pressures a balancing plug is necessary!
(refer to page 8)

Parts				
Pos.	Sp.p.	Description	Fig. 32. / 35.141....111 One-piece stem	Fig. 32. / 35.141....112 Two-piece stem
1		Body	SA216WCB	
1.2		Seat	E347-16	
2		Bonnet	≤ NPS 6": SA216WCB / ≥ NPS 8": SA105, SA106Gr.B, SA516Gr.60	
3	x	Plug	≤ NPS 6": SA276Gr.420 ¹⁾ (hardened) / ≥ NPS 8": SA516Gr.60 / Stellite 21	
4.1		Bellows seal	SA240Gr.316Ti	
4.2		Stem	SA479Gr.316Ti	
5	x	Handwheel	≤ NPS 4": A366 (cataphoretic coating) / ≥ NPS 6": SA395 (epoxy-coating)	SA395 (epoxy-coating)
6		Packing ring	Pure graphite	
7		Stud	SA193-B7	
8		Hexagon nut	SA194-2H	
9	x	Gasket	Pure graphite (with CrNi-grooved)	
25		Guide bush	≤ NPS 1": SA240Gr.316Ti / ≥ NPS 1 1/2": SA351CF8M	
44		Stem, top	--	AISI440
L Spare parts				

¹⁾ Heat treatment acc. to EN

NPS			1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"
Face-to-face dimension acc. to ASME B16.10											Standard-flange dimensions refer to page 1:		
L2	ANSI150	(in)	4.25	4.62	5	6.5	8	8.5	9.5	11.5	16	19.5	24.5
	ANSI300	(in)	6	7	8	9	10.5	11.5	12.5	14	17.5	22	24.5

Standard-flange dimensions refer to page 12

Dimensions													
H1 One-piece stem		(in)	8.86	8.86	9.06	10.63	10.83	11.81	14.96	18.11	22.44	30.91	37.01
H1 Two-piece stem		(in)	9.45	9.45	9.45	11.42	11.61	13.19	15.55	19.88	23.82	31.89	37.01
ØC (one-piece stem)		(in)	4.92	4.92	4.92	5.91	5.91	6.89	8.86	11.81	15.75	20.47	20.47
ØC (two-piece stem)		(in)	5.51	5.51	5.51	6.3	6.3	7.09	8.86	11.81	15.75	20.47	20.47
Travel		(in)	0.24	0.24	0.31	0.51	0.51	0.63	0.79	0.98	1.57	1.97	2.76
Cv-value	ANSI150	(gal/min)	4.9	7.1	12	30	47	82	117	179	441	718	1143
Zeta-value	ANSI300	--	4.6	6.9	6.2	6	6.1	5.8	6.5	6.8	5.7	6.8	6.5
Cv-value	ANSI150	(gal/min)	5.5	7.5	13	33	50	88	123	198	473	788	1272
Zeta-value	ANSI300	--	3.7	6.2	5.2	5.2	5.5	5.1	5.9	5.5	4.9	5.6	5.2

Weights												
32.141	(lbs)	13	13	15	17	30	52	65	116	187	425	635
35.141	(lbs)	13	15	21	23	36	57	75	136	223	507	739

Information / restriction of technical rules need to be observed!

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

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.

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

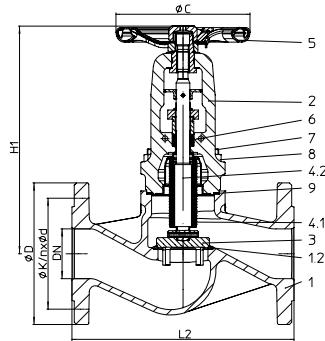
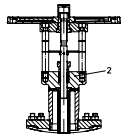
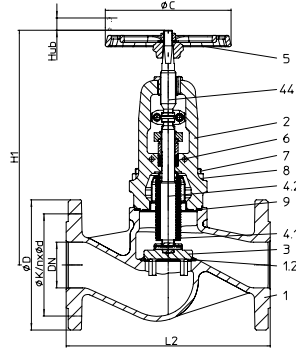
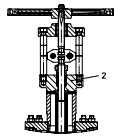
Stop valve - straight through with flanges and bellows seal - Chemical version (SA216WCB)

Fig. 141....153 NPS1/2"-6"
One-piece stem

Bonnet NPS 8"-10"
One-piece stem

Fig. 141....154 NPS1/2"-6"
Two-piece stem

Bonnet NPS 8"-10"
Two-piece stem

Figure-No.	Nominal pressure	Material	Nominal diameter
32.141....153	ANSI150	SA216WCB	NPS 1/2" - 10"
35.141....153	ANSI300	SA216WCB	NPS 1/2" - 10"
32.141....154	ANSI150	SA216WCB	NPS 1/2" - 10"
35.141....154	ANSI300	SA216WCB	NPS 1/2" - 10"

Test:	• EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 07 2016 C04
-------	---

Flanges:	• acc. to ASME / ANSI B16.5
----------	-----------------------------

Plug design:	• V-port plug with marginal seat standard
--------------	---

At high differential pressures a balancing plug is necessary! (refer to page 8)
--

Parts				
Pos.	Sp.p.	Description	Fig. 32. / 35.141....153 One-piece stem	Fig. 32. / 35.141....154 Two-piece stem
1		Body	SA216WCB	
1.2		Seat	E347-16	
2		Bonnet	≤ NPS 6": SA216WCB / ≥ NPS 8": SA105, SA106Gr.B, SA516Gr.60	
3	x	Plug	≤ NPS 6": SA276Gr.420 ¹⁾ (hardened) / ≥ NPS 8": SA516Gr.60 / Stellite 21	
4.1		Bellows seal	SA240Gr.316Ti	
4.2		Stem	SA479Gr.316Ti	
5	x	Handwheel	≤ NPS 4": A366 (cataphoretic coating) / ≥ NPS 6": SA395 (epoxy-coating)	SA395 (epoxy-coating)
6		Packing ring	Pure graphite	
7		Stud	SA193-B7	
8		Hexagon nut	SA194-2H	
9	x	Gasket	Pure graphite (with CrNi-grooved)	
44		Stem, top	--	AlSi440
L Spare parts				

¹⁾ Heat treatment acc. to EN

NPS	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"
-----	------	------	----	--------	----	--------	----	----	----	----	-----

Face-to-face dimension acc. to ASME B16.10										Standard-flange dimensions refer to page 12			
L2	ANSI150	(in)	4.25	4.62	5	6.5	8	8.5	9.5	11.5	16	19.5	24.5
	ANSI300	(in)	6	7	8	9	10.5	11.5	12.5	14	17.5	22	24.5

Dimensions												
H1 One-piece stem	(in)	8.86	8.86	9.06	10.63	10.83	11.81	14.96	18.11	22.44	30.91	37.01
H1 Two-piece stem	(in)	9.45	9.45	9.45	11.42	11.61	13.19	15.55	19.88	23.82	31.89	37.01
ØC (one-piece stem)	(in)	4.92	4.92	4.92	5.91	5.91	6.89	8.86	11.81	15.75	20.47	20.47
ØC (two-piece stem)	(in)	5.51	5.51	5.51	6.3	6.3	7.09	8.86	11.81	15.75	20.47	20.47
Travel	(in)	0.24	0.24	0.31	0.51	0.51	0.63	0.79	0.98	1.57	20.47	20.47
Cv-value ANSI150	(gal/min)	4.7	6.4	11	28	43	70	100	142	356	611	929
Zeta-value ANSI150	--	5.1	8.4	7.4	7.1	7.3	7.9	8.8	10.7	8.7	9.3	9.8
Cv-value ANSI300	(gal/min)	5.1	7	12	30	45	75	105	158	379	677	1033
Zeta-value ANSI300	--	4.2	7.1	6.2	6.3	6.7	7	8.1	8.8	7.7	7.6	8

Weights												
32.141	(lbs)	13	13	15	17	30	52	65	116	187	425	635
35.141	(lbs)	13	15	21	23	36	57	75	136	223	507	739

Information / restriction of technical rules need to be observed!

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

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.

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

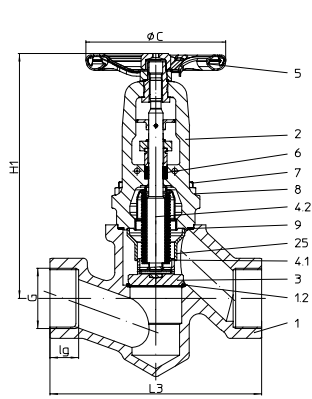
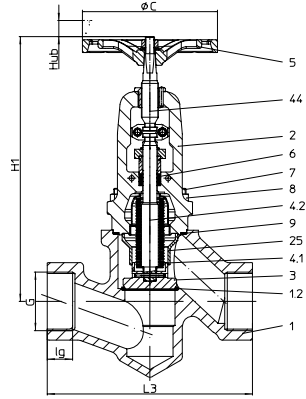
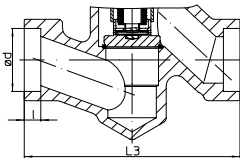
Stop valve in straightway form with screwed sockets / Socket weld ends and Bellows seal - Industrial version (SA105)

Fig. 149....111....2 with screwed sockets
One-piece stem

Fig. 149....112....2 with screwed sockets
Two-piece stem

Fig. 149....111....3 /112....3 with socket weld ends

Figure-No.	Nominal pressure	Material	Nominal diameter
45.149....111....2	ANSI300	SA105	NPS 1/2" - 2"
45.149....112....2	ANSI300	SA105	NPS 1/2" - 2"

Screwed sockets:	• acc. to DIN ISO 228 (BSP) or acc. to ASME / ANSI B1.20.1 (NPT)
------------------	---

Figure-No.	Nominal pressure	Material	Nominal diameter
45.149....111....3	ANSI300	SA105	NPS 1/2" - 2"
45.149....112....3	ANSI300	SA105	NPS 1/2" - 2"

Socket weld ends:	• acc. to ASME / ANSI B16.11
-------------------	------------------------------

Test:	• EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 07 2016 C04
-------	---

Plug design:	• Plug with marginal seat standard
--------------	------------------------------------

Parts				
Pos.	Sp.p.	Description	Fig. 45.149....111 One-piece stem	Fig. 45.149....112 Two-piece stem
1		Body	SA105	
1.2		Seat	E347-16	
2		Bonnet	SA216WCB	
3	x	Plug	SA276Gr.420 ¹⁾ (hardened)	
4.1		Bellows seal	SA240Gr.316Ti	
4.2		Stem	SA479Gr.316Ti	
5	x	Handwheel	A366 (cataphoretic coating)	SA395 (epoxy-coating)
6		Packing ring	Pure graphite	
7		Stud	SA193-B7	
8		Hexagon nut	SA194-2H	
9	x	Gasket	Pure graphite (with CrNi-grooved)	
25		Guide bush	≤ NPS 1": SA240Gr.316Ti / ≥ NPS 1 1/2": SA351CF8M	
44		Stem, top	--	AISI440
L Spare parts				

¹⁾ Heat treatment acc. to EN

NPS	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
-----	------	------	----	--------	--------	----

Face-to-face dimension		Screwed socket dimensions and socket weld end dimensions refer to page 12					
L3	(in)	4.61	4.61	5.47	7.32	7.32	8.23

Dimensions							
H1 One-piece stem	(in)	8.86	8.86	9.25	10.83	10.83	11.22
H1 Two-piece stem	(in)	9.45	9.45	10.04	11.61	11.61	12.01
ØC (one-piece stem)	(in)	4.92	4.92	4.92	5.91	5.91	5.91
ØC (two-piece stem)	(in)	5.51	5.51	5.51	6.3	6.3	6.3
Travel	(in)	0.24	0.24	0.31	0.51	0.51	0.51
Cv-value	(gal/min)	3.3	5.8	9.3	15	23	30
Zeta-value	--	10.3	10.2	9.7	10.7	10.2	14.8

Weights							
45.149....2 /3	(lbs)	7.7	7.7	9.9	15	15	19

Information / restriction of technical rules need to be observed!

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

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.

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

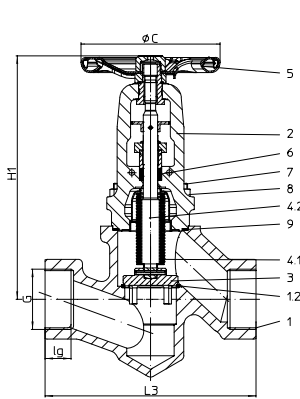
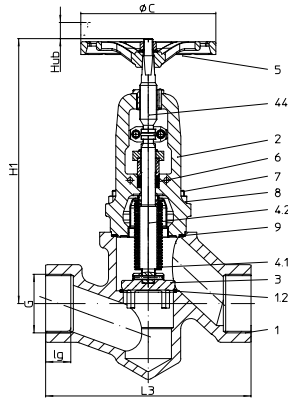
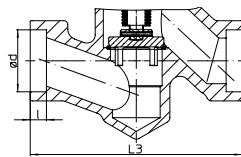
Stop valve in straightway form with screwed sockets / Socket weld ends and Bellows seal - Chemical version (SA105)

**Fig. 149....153....2 with screwed sockets
One-piece stem**

**Fig. 149....154....2 with screwed sockets
Two-piece stem**

Fig. 149....153....3 /154....3 with socket weld ends

Figure-No.	Nominal pressure	Material	Nominal diameter
45.149....153....2	ANSI300	SA105	NPS 1/2" - 2"
45.149....154....2	ANSI300	SA105	NPS 1/2" - 2"
Screwed sockets: • acc. to DIN ISO 228 (BSP) or acc. to ASME / ANSI B1.20.1 (NPT) (refer to page 12)			

Figure-No.	Nominal pressure	Material	Nominal diameter
45.149....153....3	ANSI300	SA105	NPS 1/2" - 2"
45.149....154....3	ANSI300	SA105	NPS 1/2" - 2"

Socket weld ends:	• acc. to ASME / ANSI B16.11 (refer to page 12)
-------------------	---

Test:	• EN ISO 15848-1 / TA - Luft TÜV-Test-No. TA 07 2016 C04
-------	--

Plug design:	• V-port plug with marginal seat standard
--------------	---

Parts				
Pos.	Sp.p.	Description	Fig. 45.149....153 One-piece stem	Fig. 45.149....154 Two-piece stem
1		Body	SA105	
1.2		Seat	E347-16	
2		Bonnet	SA216WCB	
3	x	Plug	SA276Gr.420 ¹⁾ (hardened)	
4.1		Bellows seal	SA240Gr.316Ti	
4.2		Stem	SA479Gr.316Ti	
5	x	Handwheel	A366 (cataphoretic coating)	SA395 (epoxy-coating)
6		Packing ring	Pure graphite	
7		Stud	SA193-B7	
8		Hexagon nut	SA194-2H	
9	x	Gasket	Pure graphite (with CrNi-grooved)	
44		Stem, top	--	AISI440
L Spare parts				

¹⁾ Heat treatment acc. to EN

NPS	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
-----	------	------	----	--------	--------	----

Face-to-face dimension							
Screwed socket dimensions and socket weld end dimensions refer to page 12							
L3	(in)	4.61	4.61	5.47	7.32	7.32	8.23

Dimensions							
H1 One-piece stem	(in)	8.86	8.86	9.25	10.83	10.83	11.22
H1 Two-piece stem	(in)	9.45	9.45	10.04	11.61	11.61	12.01
ØC (one-piece stem)	(in)	4.92	4.92	4.92	5.91	5.91	5.91
ØC (two-piece stem)	(in)	5.51	5.51	5.51	6.3	6.3	6.3
Travel	(in)	0.24	0.24	0.31	0.51	0.51	0.51
Cv-value	(gal/min)	3	5.5	8.5	13	21	27
Zeta-value	--	12	11.6	11.7	13.8	12.3	18.1

Dimensions							
45.149....2 /3	(lbs)	7.7	7.7	9.9	15	15	19

Information / restriction of technical rules need to be observed!

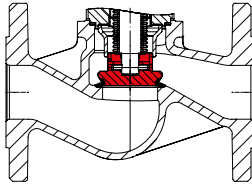
Operating and installation instructions can be downloaded at www.ari-armaturen.com.

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

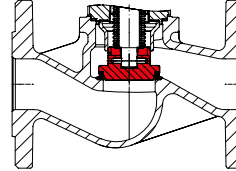
The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

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

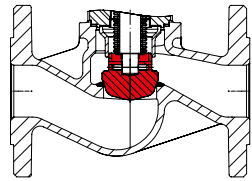
ARI-FABA®-Plus / ARI-FABA®-Supra I



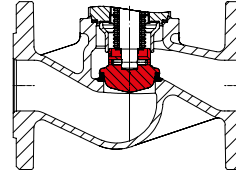
Isolation plug with marginal seat; stellite seat and plug ¹⁾



Plug with soft seal
Max. operating temperature 392°F at PTFE + 25% carbon

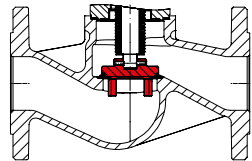


Regulating plug with marginal seat ¹⁾

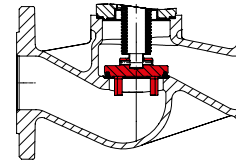


Regulating plug with soft seal ¹⁾
Max. operating temperature 392°F at PTFE + 25% carbon

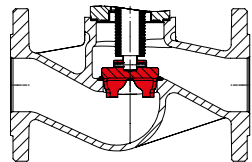
ARI-FABA®-Supra C



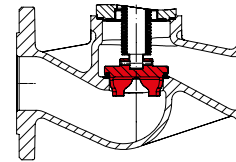
V-port plug with marginal seat; stellite



V-port plug with soft seal
Max. operating temperature 392°F at PTFE + 25% carbon

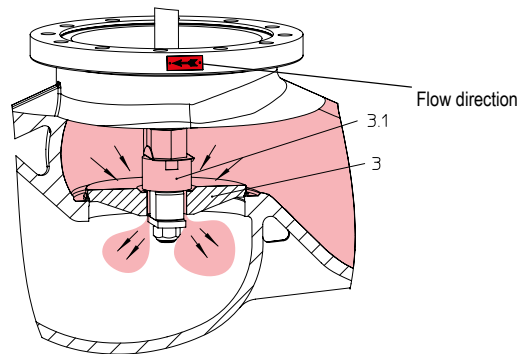


V-port regulating plug with marginal seat



V-port regulating plug with soft seal PTFE + 25% carbon
Max. operating temperature 392°F at PTFE + 25% carbon

¹⁾ for max. permissible ΔP in throttling function, refer to annex: Flow diagram (FABA-Plus)



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 and the stem is vertically upright.

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.

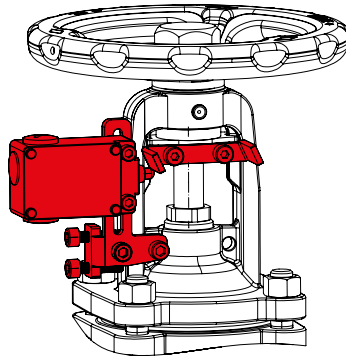
Balancing plugs are fully effective only in closed systems.

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

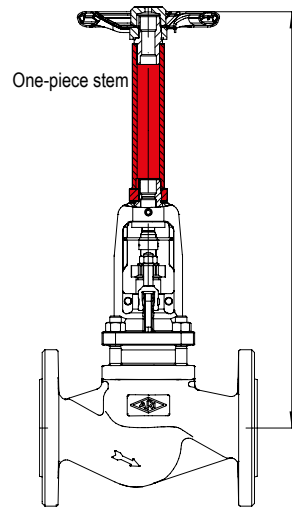
A bypass line or some other arrangement is necessary if too much time is required for pressure equalization owing to the volume in the piping system.

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

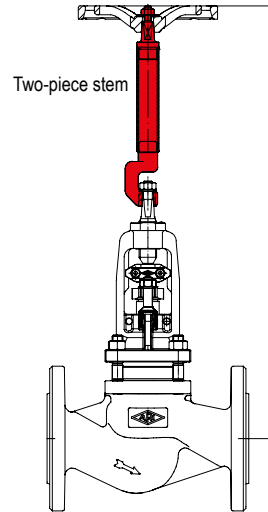
NPS		6"	8"	10"
max. differential pressure (ΔP)	(psi)	305	203	131



Limit switch

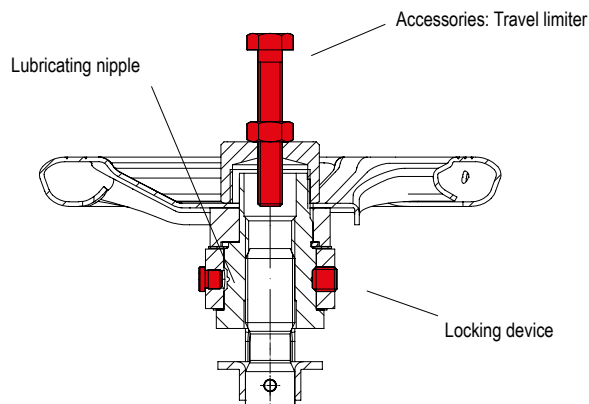


One-piece stem



Two-piece stem

Stem extension (please specify height in your order)

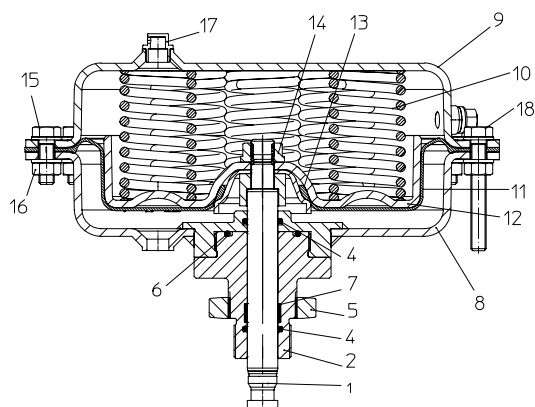


Lubricating nipple / Locking device / Travel limiter
(only construction FABA-Plus and FABA-Supra with one-piece stem)

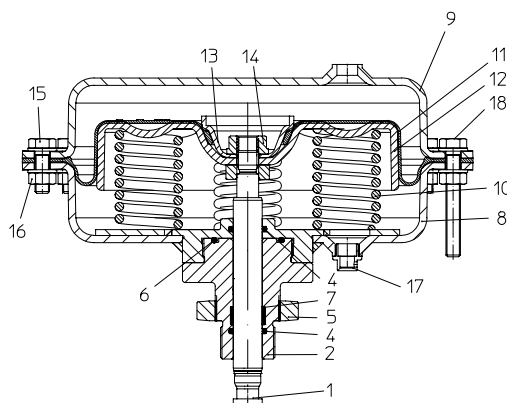
Travel limiter
(Accessories are not included !)

NPS (in)	Hexagon screw (mm x mm)
1/2" - 3"	M8 x 55
4"	M12 x 70
6"	M12 x 80
8"	M12 x 100
10"	M12 x 120

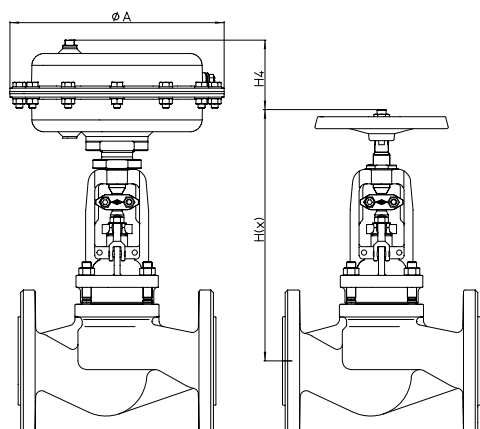
Pneumatic actuator ARI-FA



Spring closes (Extended stem on air failure)



Spring opens on air failure (Retracted stem on air failure)



Important:

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

Max. medium temperature in the valve 482°F !

Not applicable for design with balancing plugs !

Parts			
Pos.	Sp.p.	Description	Material
1		Stem	SA276Gr.420 ¹⁾
2		Head	SA276Gr.420 ¹⁾
4	x	O-ring	NBR
5		Lock nut	AISI1213 (Fe/Zn 12B)
6	x	O-ring	NBR
7	x	Guiding band	PTFE ->25%C
8		Lower diaphragm casing	AISI1008 (powder coated)
9		Upper diaphragm casing	AISI1008 (powder coated)
10	x	Spring	AISI9254
11	x	Rolling diaphragm	NBR + webbing
12		Diaphragm plate	AISI1008 (Fe/Zn12B)
13		Diaphragm flange	AISI1213 (Fe/Zn12B)
14	x	Collar nut with sealing ring	St
15		Hexagon bolt	St (galvanised)
16		Hexagon nut	St (galvanised)
17	x	Vent plug	Polyethylene
L Spare parts			

¹⁾ Heat treatment acc. to EN

Type of actuator		FA160	FA250	FA400	FA800
Ø A	(in)	8.27	9.84	11.81	15.94
H(x)	(in)	refer to page 4 - 6			
max. H4	(in)	3.54	4.13	4.72	6.5
max. pressure	(psi)	87	87	87	87
Weight (Actuator.)	(lbs)	14	20	38	110

max. permissible closing pressures on flow-to-open P2 = 0.
Observe regulations, refer to page 12.

NPS			1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	
Travel			(in)	0.24	0.24	0.31	0.51	0.51	0.63	0.79	0.98	1.57
FA160 Spring closes  (Extended stem on air failure)	Air supply pressure min. (psi) ¹⁾	58	(psi)	580	580	387						
FA250 Spring closes  (Extended stem on air failure)		65	(psi)				297	161	23			
FA400 Spring closes  (Extended stem on air failure)		65	(psi)				580	450	215	94	20	
FA800 Spring closes  (Extended stem on air failure)		73	(psi)								252	62

NPS			1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	
Travel			(in)	0.24	0.24	0.31	0.51	0.51	0.63	0.79	0.98	1.57
FA160 Spring opens  (Retracted stem on air failure)	Air supply pressure min. (psi) ¹⁾	44	(psi)	580	580	306						
		58	(psi)	580	580	580						
		73	(psi)	580	580	580						
		87	(psi)	580	580	580						
FA250 Spring opens  (Retracted stem on air failure)		44	(psi)				200	100				
		58	(psi)				435	251	90			
		73	(psi)				580	403	181			
		87	(psi)				580	554	271			
FA400 Spring opens  (Retracted stem on air failure)		44	(psi)						139	57		
		58	(psi)						284	152	68	
		73	(psi)						429	248	131	
		87	(psi)						573	345	191	
FA800 Spring opens  (Retracted stem on air failure)		44	(psi)								151	26
		58	(psi)								274	81
		73	(psi)								399	136
		87	(psi)								522	191

¹⁾ Air supply pressure max. to actuator: 87 psi

NPS	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"
-----	------	------	----	--------	----	--------	----	----	----	----	-----

Standard-flange dimensions											Flanges acc. to ASME B16.5		
ANSI150	ØD1	(in)	3.5	3.88	4.25	5	6	7	7.5	9	11	13.5	16
	ØK1	(in)	2.38	2.75	3.12	3.88	4.75	5.5	6	7.5	9.5	11.75	14.25
	n x Ød1	(n x in)	4 x 5/8	4 x 5/8	4 x 5/8	4 x 5/8	4 x 3/4	4 x 3/4	4 x 3/4	8 x 3/4	8 x 7/8	8 x 7/8	12 x 1
ANSI300	ØD2	(in)	3.75	4.62	4.88	6.12	6.5	7.5	8.25	10	12.5	15	17.5
	ØK2	(in)	2.62	3.25	3.5	4.5	5	5.88	6.62	7.88	10.62	13	15.25
	n x Ød2	(n x in)	4 x 5/8	4 x 3/4	4 x 3/4	4 x 7/8	8 x 3/4	8 x 7/8	8 x 7/8	8 x 7/8	12 x 7/8	12 x 1	16 x 1 1/8

NPS	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
-----	------	------	----	--------	--------	----

Screwed socket dimensions							
ANSI300	lg	(in)	0.59	0.64	0.75	0.84	1.01
ANSI300	G (BSP)	(in)	1/2	3/4	1	1 1/4	1 1/2
ANSI300	G (NPT)	(in)					

NPS	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
-----	------	------	----	--------	--------	----

Socket weld ends dimensions							
ANSI300	l	(in)	0.39	0.51	0.51	0.51	0.63
ANSI300	Ød	(in)	0.85	1.07	1.33	1.67	2.41

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

acc. to ASME B16.5			-20°F to 100°F	200°F	300°F	400°F	500°F	600°F	650°F	700°F	750°F	800°F
SA216WCB / SA105	ANSI150	(psi)	285	260	230	200	170	140	125	110	95	80
SA216WCB / SA105	ANSI300	(psi)	740	680	655	635	605	570	550	530	505	410

Please indicate when ordering

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

Example:

Figure 32.041; Class 150; NPS 4".