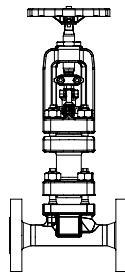


Free of maintenance stop valve with bellows seal - metallic sealing  
DN 10 - 25

**ARI-FABA®-Supra MD**  
**Straight through with flanges**

- Rising handwheel
- TRB 801 Annex II Nr. 45

Forged steel  
High temp. steel  
**Fig. 146**

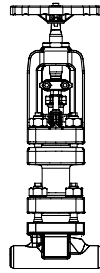


Page 2

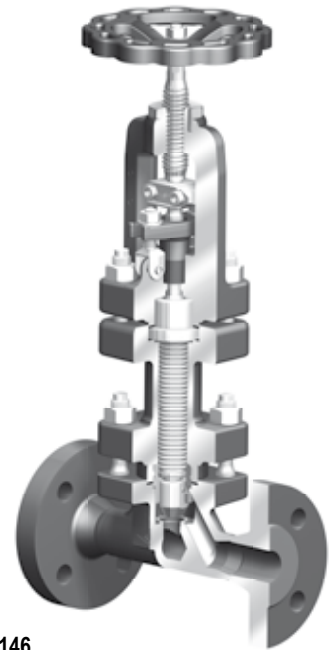
**ARI-FABA®-Supra MD**  
**Straight through with butt weld ends**

- Rising handwheel
- TRB 801 Annex II Nr. 45

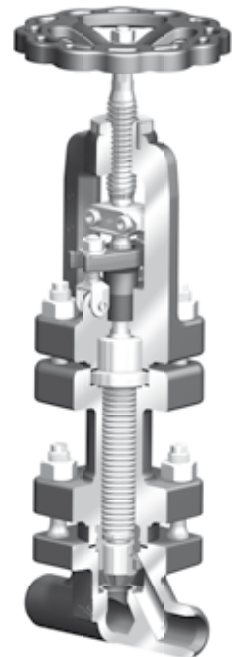
Forged steel  
High temp. steel  
**Fig. 140**



Page 4



**Fig. 146**



**Fig. 140**

**Features:**

- Multi-wall bellows seal, shielded
- Bellows seal 10.000 load cycles
- Guided plug, hardened / stellited
- Seat stellited
- Upper stem with roll hardened thread
- Bellows seal stem with back seat as standard
- Secondary sealing: gland packing / bridge with flap type screw
- Grooved gaskets

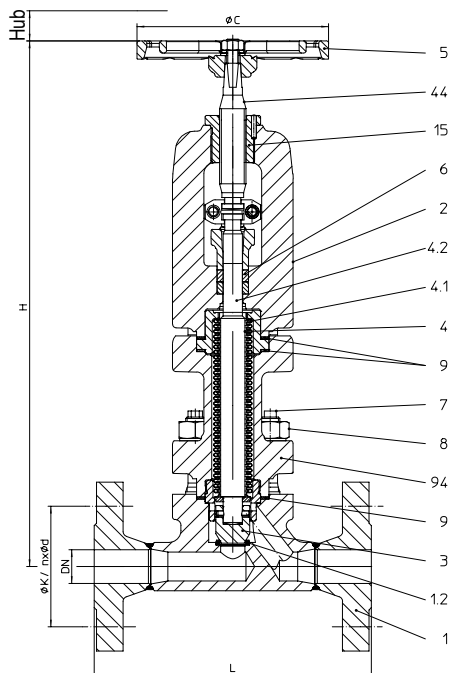
**Stop valve - straight through with flanges and bellows seal (Forged steel, High temperature steel)**


Figure	Nominal pressure	Material	Nominal diameter
46.146...40	PN63	1.0460	DN10-25
47.146...40	PN100	1.0460	DN10-25
48.146...40	PN160	1.0460	DN10-25

86.146...81	PN63	1.7335	DN10-25
87.146...81	PN100	1.7335	DN10-25
88.146...81	PN160	1.7335	DN10-25

Larger nominal diameters on request.

Parts				
Pos.	Sp. p.	Description	Fig. 46./47./48.146...40	Fig. 86./87./88.146...81
1		Body	P250 GH, 1.0460	13CrMo4-5, 1.7335
1.2		Seat	Stellit 21	
2	x (unit)	Bonnet	GP240GH+N, 1.0619+N	G17CrMo5-5, 1.7357
3		Plug	X20Cr13+QT, 1.4021+QT (hardened)	13CrMo4-5, 1.7335
4		Spindle unit		
4.1		Bellows seal	X6CrNiMoTi17 12 2, 1.4571	
4.2		Stem	X6CrNiMoTi17 12 2, 1.4571	
6		Packing ring	Pure graphite	
44		Stem, top	X39CrMo17-1+QT, 1.4122+QT	
94	Bellows housing	GP240GH+N, 1.0619+N	G17CrMo5-5, 1.7357	
5		Handwheel	EN-GJS-400-15, EN-JS1030 (FE 13 epoxy-coating)	
7		Stud-bolt	21CrMoV 5-7, 1.7709	
8		Hexagon nut	21CrMoV 5-7, 1.7709	
9	x	Gasket	Pure graphite 99,85% (with Cr-Ni-grooved)	
15		Insert nuts	CuZn35Ni3Mn2AlPb-R490, CW710R-R490	
L Spare parts				

DN	10	15	20	25
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Face-to-face dimension FTF serie 2 acc. to DIN EN 558		Standard-flange dimensions refer to page 4			
L	(mm)	210	210	230	230

Dimensions					
H	(mm)	438	438	438	438
ØC	(mm)	160	160	160	160
Travel	(mm)	12	12	12	12
Kvs-value	(m³/h)	2,7	4,2	6,4	8,6
Zeta-value	--	2,2	4,6	6,2	8,4

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

Seat tightness: Leakage rate A acc. to DIN EN 12266-1

Weights					
46./47./48.146	(kg)	8,7	8,9	10,5	11,5
86./87./88.146	(kg)				

Larger nominal diameters on request.

Information / restriction of technical rules need to be observed!

Operating and installation instructions can be downloaded at [www.ari-armaturen.com](http://www.ari-armaturen.com).

A production permission acc. to TRB 801 No. 45 is available.

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

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

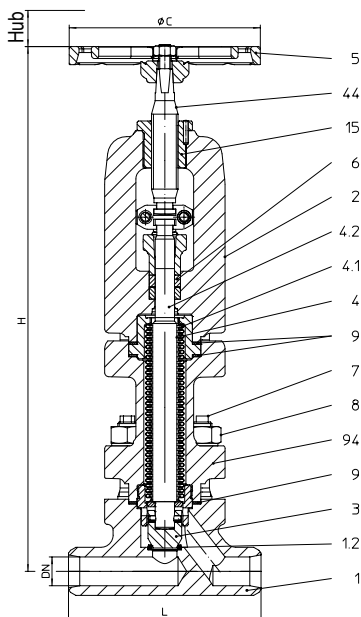
**Stop valve - straight through with butt weld ends and bellows seal (Forged steel, High temperature steel)**


Figure	Nominal pressure	Material	Nominal diameter
46.140...40	PN63	1.0460	DN10-25
47.140...40	PN100	1.0460	DN10-25
48.140...40	PN160	1.0460	DN10-25

86.140...80	PN63	1.5415	DN10-25
87.140...80	PN100	1.5415	DN10-25
88.140...80	PN160	1.5415	DN10-25
86.140...81	PN63	1.7335	DN10-25
87.140...81	PN100	1.7335	DN10-25
88.140...81	PN160	1.7335	DN10-25

Larger nominal diameters on request.

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

Parts					
Pos.	Sp. p.	Description	Fig. 46./47./48.140...40	Fig. 86./87./88.140...80	Fig. 86./87./88.140...81
1		Body	P250 GH, 1.0460	16Mo3, 1.5415	13CrMo4-5, 1.7335
1.2		Seat	Stellit 21		
2	x (unit)	Bonnet	GP240GH+N, 1.0619+N	G17CrMo5-5, 1.7357	
3		Plug	X20Cr13+QT, 1.4021+QT	13CrMo4-5, 1.7335	
4		Spindle unit			
4.1		Bellows seal	X6CrNiMoTi17 12 2, 1.4571		
4.2		Stem	X6CrNiMoTi17 12 2, 1.4571		
6		Packing ring	Pure graphite		
44		Stem, top	X39CrMo17-1+QT, 1.4122+QT		
94	Bellows housing	GP240GH+N, 1.0619+N	G17CrMo5-5, 1.7357		
5		Handwheel	EN-GJS-400-15, EN-JS1030 (FE 13 epoxy-coating)		
7		Stud-bolt	21CrMoV 5-7, 1.7709		
8		Hexagon nut	21CrMoV 5-7, 1.7709		
9	x	Gasket	Pure graphite 99,85% (with Cr-Ni-grooved)		
15		Insert nuts	CuZn35Ni3Mn2AlPb-R490, CW710R-R490		
	L Spare parts				

DN	10	15	20	25	
<b>Face-to-face dimension ETE serie 65 acc. to DIN EN 12982</b>					
L	(mm)	150	150	150	160
<b>Dimensions</b>					
H	(mm)	438	438	438	438
ØC	(mm)	160	160	160	160
Hub	(mm)	12	12	12	12
Kvs-value	(m³/h)	2,7	4,2	6,4	8,6
Zeta-value	--	2,2	4,6	6,2	8,4
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173					
Seat tightness: Leakage rate A acc. to DIN EN 12266-1					
<b>Weights</b>					
46./47./48.140 86./87./88.140	(kg)	6,5	6,5	6,5	6,6

Larger nominal diameters on request.

Information / restriction of technical rules need to be observed!

Operating and installation instructions can be downloaded at [www.ari-armaturen.com](http://www.ari-armaturen.com).

A production permission acc. to TRB 801 No. 45 is available.

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

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

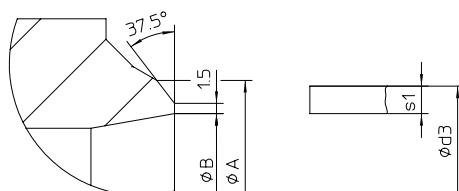


DN			10	15	20	25
<b>Standard-flange dimensions</b>						
Flanges according to DIN EN 1092-1 Form B1						
PN63	ØD	(mm)	100	105	130	140
	ØK	(mm)	70	75	90	100
	n x Ød	(mm)	4 x 14	4 x 14	4 x 18	4 x 18
PN100	ØD	(mm)	100	105	130	140
	ØK	(mm)	70	75	90	100
	n x Ød	(mm)	4 x 14	4 x 14	4 x 18	4 x 18
PN160	ØD	(mm)	100	105	130	140
	ØK	(mm)	70	75	90	100
	n x Ød	(mm)	4 x 14	4 x 14	4 x 18	4 x 18

### Valves with butt weld ends

Edge shaping acc. to DIN EN 25817

Ød3 / s1 = corresponding pipe dimension



DN			10	15	20	25
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### Butt weld ends according to DIN EN 12627

PN63	ØA	(mm)	18	22	28	35
	ØB	(mm)	13,2	17,3	22,3	28,5
	Ød3	(mm)	17,2	21,3	26,9	33,7
	s1	(mm)	2	2	2,3	2,6
PN100	ØA	(mm)	18	22	28	35
	ØB	(mm)	13,2	17,3	22,3	28,5
	Ød3	(mm)	17,2	21,3	26,9	33,7
	s1	(mm)	2	2	2,3	2,6
PN160	ØA	(mm)	18	22	28	35
	ØB	(mm)	13,2	17,3	22,3	27,3
	Ød3	(mm)	17,2	21,3	26,9	33,7
	s1	(mm)	2	2	2,3	3,2

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

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

P250GH, 1.0460 acc. to DIN EN 10222-2

16Mo3, 1.5415 acc. to DIN EN 10222-2

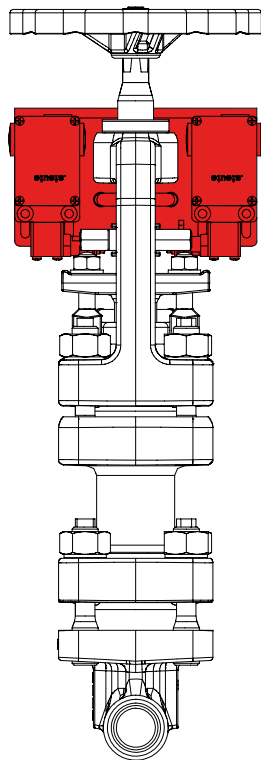
13CrMo4-5, 1.7335 acc. to DIN EN 10222-2

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

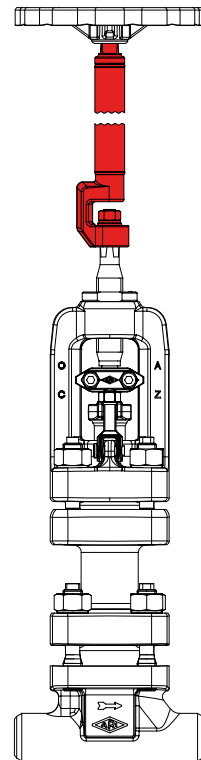
G17CrMo5-5, 1.7357 acc. to DIN EN 10213

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

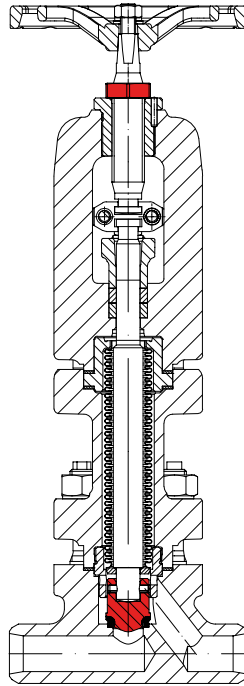
acc. to manufacturers standard		-10°C to 50°C	120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.0460	PN 63 (bar)	63	63	58	50	45	40	36	32	24
	PN 100 (bar)	100	100	90	80	70	60	56	50	38
	PN 160 (bar)	160	160	145	130	112	96	90	80	60
acc. to manufacturers standard		-10°C to 250°C	300°C	350°C	400°C	450°C	500°C	520°C	530°C	
1.5415	PN 63 (bar)	63	56	50	47	45	29	16	14	
	PN 100 (bar)	100	87	78	74	70	45	27	22	
	PN 160 (bar)	160	139	125	118	112	72	43	35	
1.7335	PN 63 (bar)	63	63	61	58	56	47	32	25	
	PN 100 (bar)	100	100	95	91	87	74	49	38	
	PN 160 (bar)	160	160	153	146	139	118	79	62	



Limit switch, mechanic  
(special limit switches on request)



Stem extension  
(please specify height in your order! Max. 2500mm)



DN10-25: Regulating plug with lock nut as locking device  
(for max. permissible  $\Delta P$  refer to: Flow diagram)

**Please indicate when ordering:**

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

**Example:**

Figure 46.146....40; Nominal pressure PN63; Nominal diameter DN15; Body material 1.0460; Regulating plug with locking device.

Figure 88.140....80; Nominal pressure PN160; Nominal diameter DN25; Body material 1.5415.



**Technology for the Future.**  
GERMAN QUALITY VALVES

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