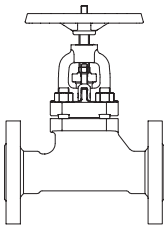
Stop valve with gland seal - metallic sealing

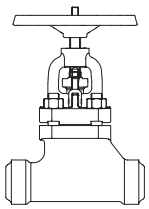
ARI-STOBU® -
Straight through with flanges



Forged steel
High temperature steel

Fig. 006 Seite 2

ARI-STOBU® -
Straight through with butt weld ends



Forged steel
High temperature steel

Fig. 005 Seite 3

Fig. 005

Features:

- Proven technology
- Plug hardened/stellited
- Seat stellited
- Rolled thread stem
- Burnished stem
- High-tensile gland packing
- Bonnet top with threaded bushing
- Pivot mounted bolts
- Back seat as standard
- Inside and outside chambered bonnet gasket

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

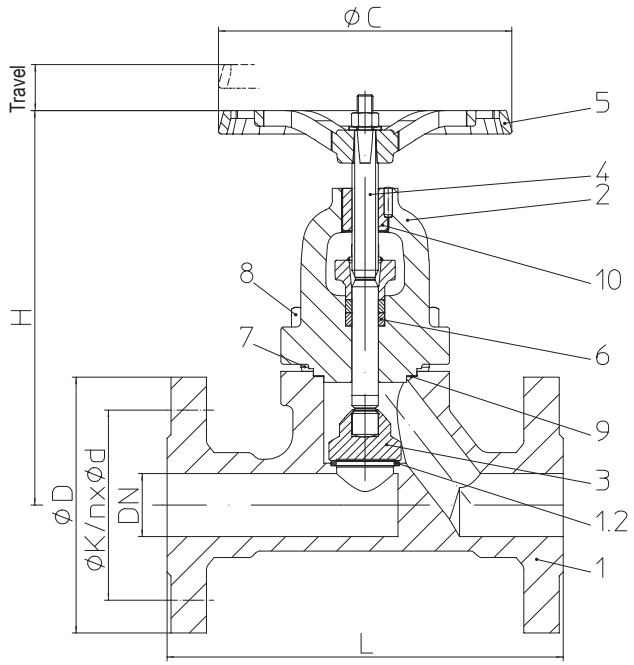


Figure	Nominal pressure	Material	Nominal diameter
48.006....40	PN63-160	1.0460	10-40
46.006....40	PN63	1.0460	50
48.006....40	PN100-160	1.0460	50
88.006....81	PN160	1.7335	10-40
86.006....81	PN63	1.7335	50
88.006....81	PN100	1.7335	50

Selection of possible applications

Industry, steam boilers, mechanical engineering and construction / piping, chemical industry, power plants, such as combined cycle, CHP, incineration, waste to energy, bio energy, etc.
(other applications on request)

Selection of possible flow media

Steam, gases, liquids, etc.
(other flow media on request)

Parts

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

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.

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

Dimensions

	DN	10	15	20	25	32	40	50
L	(mm)	210	210	230	230	260	260	300
H	(mm)	228	228	228	228	292	292	300
ØC	(mm)	180	180	180	180	225	225	225
Travel	(mm)	11	11	11	11	17	17	21
Kvs-value	(m^3/h)	2,7	4,2	6,4	8,6	21,8	24,2	33
Zeta-value	--	2,1	4,4	6	8,3	3,4	6,7	8,8
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173							Standard-flange dimensions refer to page 6	

Face-to-face dimension FTF series 2 according to DIN EN 558

Weights

Figure-No.	DN	10	15	20	25	32	40	50
46.006 / 86.006	(kg)							26
48.006 / 88.006	(kg)	8,7	8,9	10,5	11,5	19	21	27

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

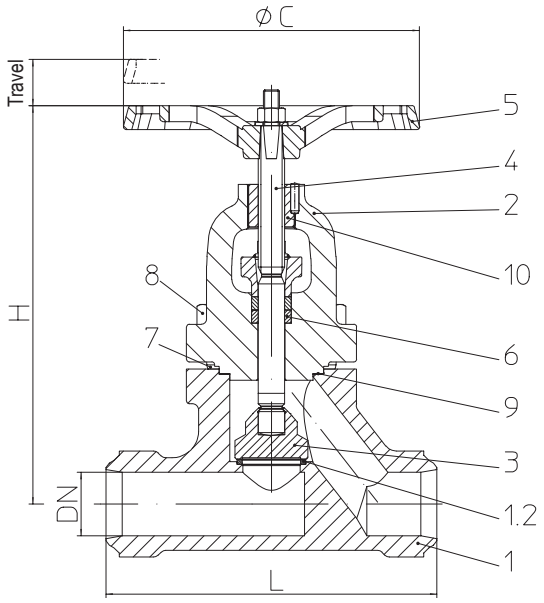


Figure	Nominal pressure	Material	Nominal diameter
48.005....40	PN160	1.0460	10-50
88.005....80	PN160	1.5415	10-50
88.005....81	PN160	1.7335	10-50
Butt weld ends acc. to DIN EN 12627 (refer to page 4)			

Selection of possible applications

Industry, steam boilers, mechanical engineering and construction / piping, chemical industry, power plants, such as combined cycle, CHP, incineration, waste to energy, bio energy, etc.
(other applications on request)

Selection of possible flow media

Steam, gases, liquids, etc.
(other flow media on request)

Parts

Pos.	Description	Fig. 48.005....40	Fig. 88.005....80	Fig. 88.005....81
1	Body	P250 GH, 1.0460	16Mo3, 1.5415	13CrMo4-5, 1.7335
1.2	Seatring	Stellit		
2	Bonnet	P250 GH, 1.0460	16Mo3, 1.5415	13CrMo4-5, 1.7335
3	Plug	X20Cr13+QT, 1.4021+QT (hardened)	13CrMo4-5, 1.7335 / Stellit	
4	Stem	X20Cr13+QT, 1.4021+QT (burnished)	X39CrMo17-1+QT, 1.4122+QT (burnished)	
5	Handwheel	EN-GJS-400-15, EN-JS1030 (FE 13 epoxy-coating)		
6	Packing ring	Pure graphite		
7	Stud	21CrMoV 5-7, 1.7709		
8	Hexagon nut	21CrMoV 5-7, 1.7709		
9	Gasket	Pure graphite (CrNi laminated with graphite)		
10	Insert nuts	11SMn30+C, 1.0715+C (nitrided)		

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.

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

Dimensions

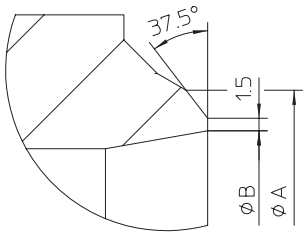
	DN	10	15	20	25	32	40	50
L	(mm)	150	150	150	160	180	210	250
H	(mm)	228	228	228	228	292	292	300
ØC	(mm)	180	180	180	180	225	225	225
Travel	(mm)	11	11	11	11	17	17	21
Kvs-value	(m^3/h)	2,7	4,2	6,4	8,6	21,8	24,2	33
Zeta-value	--	2,1	4,4	6	8,3	3,4	6,7	8,8
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173								

Face-to-face dimension ETE series 65 according to DIN EN 12982

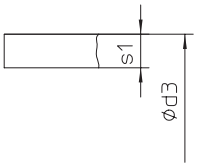
Weights

Figure-No.	DN	10	15	20	25	32	40	50
48.005 / 88.005	(kg)	6,5	6,5	6,5	6,6	13,2	13,2	16,2

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



Ød3 / s1 = corresponding pipe dimension

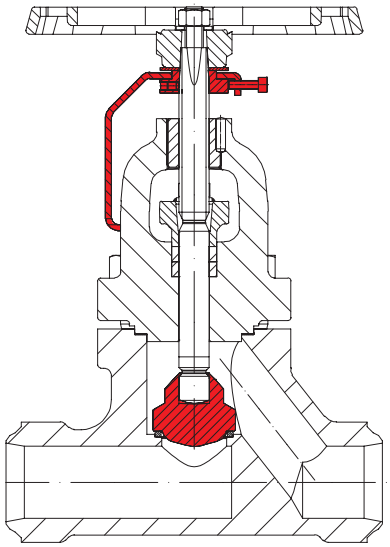


Butt weld ends according to DIN EN 12627

	DN	10	15	20	25	32	40	50
ØA	(mm)	18	22	28	35	44	50	62
ØB	(mm)	13,2	17,3	22,3	27,3	35,2	41,1	52,3
Ød3	(mm)	17,2	21,3	26,9	33,7	42,4	48,3	60,3
s1	(mm)	2	2	2,3	3,2	3,6	3,6	4

Face-to-face dimension ETE series 65 according to DIN EN 12982.

The material used for ARI valves with butt weld ends are:
P250GH, 1.0460 acc. to DIN EN 10222-2
16Mo3, 1.5415 acc. to DIN EN 10028
13CrMo4-5, 1.7335 acc. to DIN EN 10028



Regulating plug with Position indicator and locking device
(for max. permissible ΔP refer to: Flow diagram)

Electric or pneumatic actuator on request

Standard-flange dimensions

Flanges acc. to DIN 2501, facing acc. to DIN 2526 form E (Flangeholes / -thickness tol. acc. to DIN 2533/2544/2545)

DN		(mm)	10	15	20	25	32	40	50
PN63	ØD	(mm)	100	105	130	140	155	170	180
PN63	ØK	(mm)	70	75	90	100	110	125	135
PN63	n x Ød	(mm)	4x14	4x14	4x18	4x18	4x22	4x22	4x22
PN100	ØD	(mm)	100	105	130	140	155	170	195
PN100	ØK	(mm)	70	75	90	100	110	125	145
PN100	n x Ød	(mm)	4x14	4x14	4x18	4x18	4x22	4x22	4x26
PN160	ØD	(mm)	100	105	130	140	155	170	195
PN160	ØK	(mm)	70	75	90	100	110	125	145
PN160	n x Ød	(mm)	4x14	4x14	4 x 18	4x18	4 x 22	4x22	4x26

Pressure-temperature-ratings acc. to manufacturers standard

Werkstoff			-10°C bis 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
1.0460	PN 100	(bar)	100	100	90	80	70	60	56	50	38
1.0460	PN 160	(bar)	160	160	145	130	112	96	90	80	60

Pressure-temperature-ratings acc. to manufacturers standard

Werkstoff			-10°C bis 250°C	300°C	350°C	400°C	450°C	500°C	520°C	530°C	540°C	550°C
1.5415	PN 63	(bar)	63	56	50	47	45	29	16	14	--	--
1.5415	PN 100	(bar)	100	87	78	74	70	45	27	22	--	--
1.5415	PN 160	(bar)	160	139	125	118	112	72	43	35	--	--
1.7335	PN 63	(bar)	63	63	61	58	56	47	32	25	20	15
1.7335	PN 100	(bar)	100	100	95	91	87	74	49	38	31	24
1.7335	PN 160	(bar)	160	160	153	146	139	118	79	62	46	35

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

Please indicate when ordering:

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

Example:

Figure 46.006; nominal pressure PN63; nominal diameter DN50; with regulatin plug, position indicator and locking device.

Dimensions in mm
Weights in kg
1 bar ≙ 10^5 Pa ≙ 0,1 MPa
Kvs in m^3/h

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Technology for the Future.

GERMAN QUALITY VALVES

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