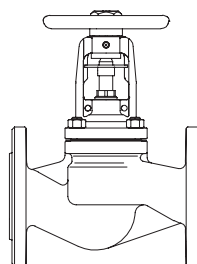


Maintenance free stop valve with bellow seal - metallic sealing

ARI-FABA®-Plus -
Straight through with flanges

- EN ISO 15848-1 / TA - Luft
- TÜV-Test-No. 973-10675245-10 B
- TRB 801 Annex II No. 45



SG iron
Fig. 046

Page 2

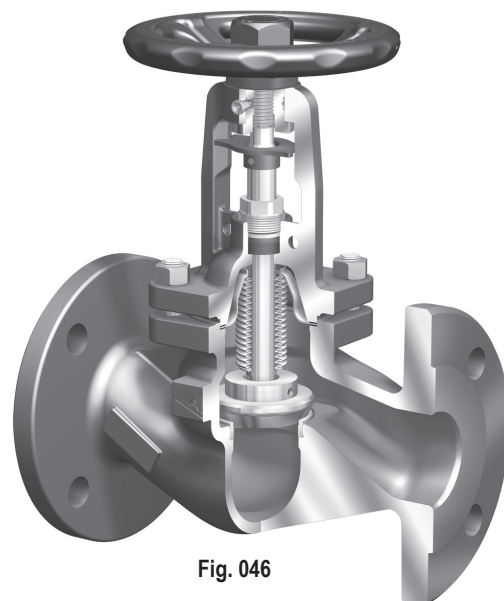


Fig. 046

**Flanges drilled
acc. to ANSI150**

Features:

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

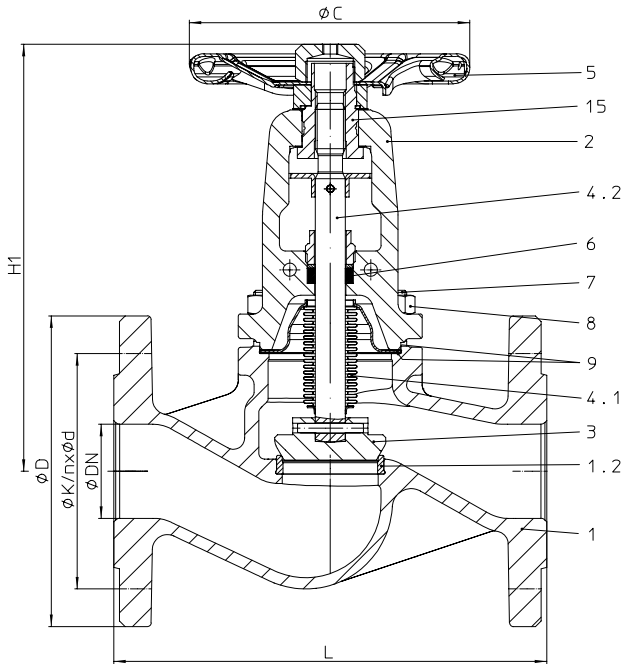
Stop valve - straight through with flanges and bellows seal (SG iron)


Figure-No.	Nominal pressure	Material	Nominal diameter
22.046	PN16 drilled acc. to ANSI150	EN-JS1049	DN200-250
	Test: • DIN DVGW-Reg. NG-4313AO 0772		
23.046	PN25 drilled acc. to ANSI150	EN-JS1049	DN15-150

Test: • EN ISO 15848-1 / TA - Luft TÜV-Test-No. 973-10675245-10 B

Plug design: • Plug with marginal seat standard

At high differential pressures a balancing plug is necessary! (refer to page 3)

Parts			
Pos.	Sp.p.	Description	Fig. 23.046
1		Body	EN-JS1049, EN-GJS-400-18U-LT
1.2		Seat ring	X20Cr13+QT, 1.4021+QT
2		Bonnet	EN-JS1049, EN-GJS-400-18U-LT
3	x	Plug	X20Cr13+QT, 1.4021+QT (hardened)
4		Spindle unit	
4.1	x	Bellows seal	X6CrNiMoTi17 12 2, 1.4571
4.2		Stem	X20Cr13+QT, 1.4021+QT
5		Handwheel	≤DN125: St (cataphoretic coating) / ≥DN150: EN-JL1040, EN-GJL-250 (epoxy-coating)
6	x	Packing ring	Pure graphite
7		Stud	25CrMo4, 1.7218
8		Hexagon nut	C35E, 1.1181
9	x	Gasket	Pure graphite (CrNi laminated with graphite)
15	x	Insert nuts	11SMn30+C, 1.0715+C
L Spare parts			

DN	15	20	25	32	40	50	65	80	100	125	150	200	250
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Face-to-face dimension FTF series 1 acc. to DIN EN 558													
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	730

Dimensions													
Standard-flange dimensions refer to page 3													
H1	(mm)	205	205	210	210	225	230	245	265	365	395	430	720
ØC	PN16	(mm)	125	125	125	125	150	150	175	175	225	300	520
	PN25	(mm)	125	125	125	125	150	150	175	175	300	300	520
Travel	(mm)	6	6	8	8	13	13	16	20	25	32	40	70
Kvs-value	(m³/h)	5,3	7,2	12	16	28,5	43	75	105	170	270	405	1090
Zeta-value	--	2,9	4,9	4,3	6,5	5	5,4	5,1	5,9	5,5	5,3	4,9	5,2
Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173													

Weights													
22. / 23.046	(kg)	3,7	4,5	5,6	6,9	8,9	11	15,3	21,1	32,4	51,6	74	247

Information / restriction of technical rules need to be observed!

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

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

Production tolerances as per TRB801 No. 45.

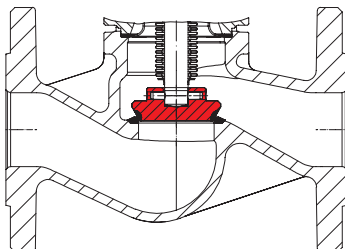
Resistance and fitness must be verified (contact manufacturer for information, refer to Product overview and Resistance list).

DN			15	20	25	32	40	50	65	80	100	125	150	200	250
Standard-flange dimensions acc. to ASME 16.42															
ANSI150	ØD	(mm)	89	99	108	118	127	153	178	191	229	254	279	343	406
	ØK	(mm)	60	70	79	89	98	121	140	152	191	216	241	298	362
	n x Ød	(mm)	4 x 16	4 x 16	4 x 16	4 x 16	4 x 16	4 x 19	4 x 19	4 x 19	8 x 19	8 x 22	8 x 22	8 x 22	12 x 25

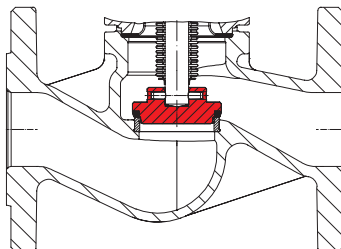
Pressure-temperature-ratings	Intermediate values for max. permissible operational pressures can be determined by linear interpolation of the given temperature / pressure chart.
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acc. to ASME 16.42			-29°C to <-10°C ¹⁾	-10°C to 38°C	50°C	100°C	120°C	200°C	250°C	300°C	343°C
EN-JS1049	PN16 drilled acc. to ANSI150	(bar)	on request	16	16	16	15,5	13,9	12,1	10,2	8,6
EN-JS1049	PN25 drilled acc. to ANSI150	(bar)	on request	17,2	17	16	15,5	13,9	12,1	10,2	8,6

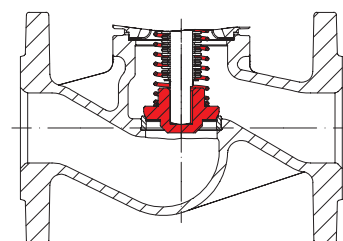
¹⁾ Studs and nuts made of A4-70 (at temperatures below -10°C)



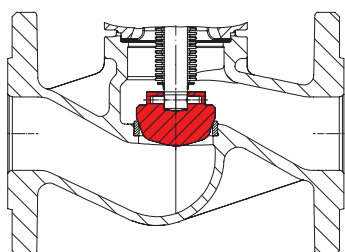
Isolation plug with marginal seat; stellited seat and plug ¹⁾



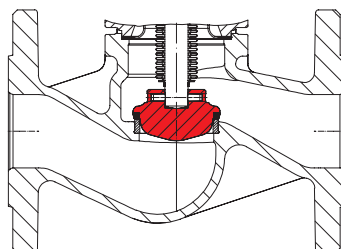
Plug with Soft seal
Max. operating temperature 200°C at PTFE + 25% carbon



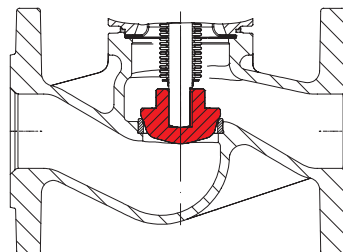
Screw down non-return plug with re-setting spring
(Set pressure refer to annex: Flow diagram)



Regulating plug with marginal seat ¹⁾



Regulating plug with soft seal ¹⁾
Max. operating temperature 200°C at PTFE + 25% carbon



Screw down non-return regulating plug with marginal seat ¹⁾
(Set pressure refer to annex: Flow diagram)

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

Balancing plug

Valves with balancing plugs have to be installed with medium flowing over the plug (3) as indicated by flow direction arrow on valve body.

Working principles:

When the valve is closed, anticlockwise rotation of the hand wheel lifts the pilot plug (3.1) off the larger balancing plug (3).

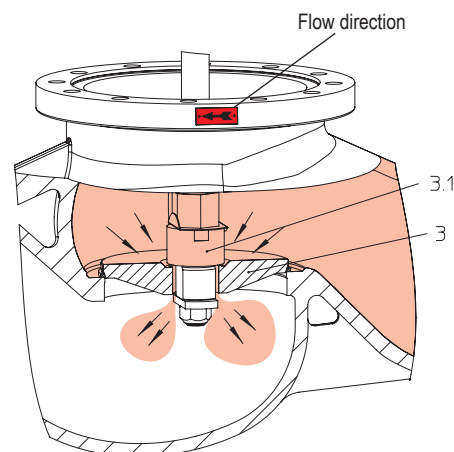
This allows the medium to pass through the plug and equalizes the pressure of the medium under the plug (3).

After the pressures have been equalized within the values stated in the table, the valve can be opened by turning the valve further with normal manual force.

Balancing plugs are fully effective only in closed systems.

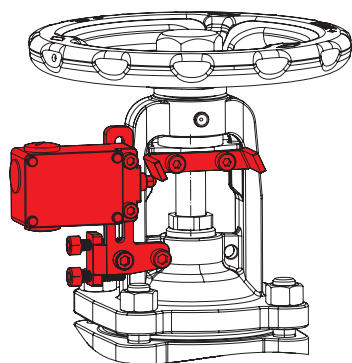
The pressures of the medium on either side of the plug can not be equalized if the medium is discharged into open air.

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

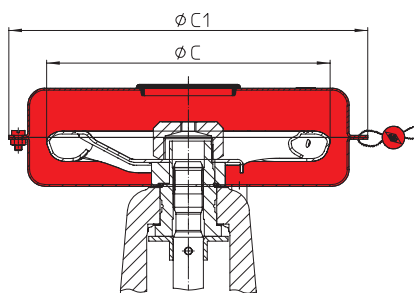


ARI-stop valves with differential pressures exceeding the following pressures, have to be fitted with pressure balancing plugs

DN		200	250
Gauge press. (ΔP)	(bar)	14	9



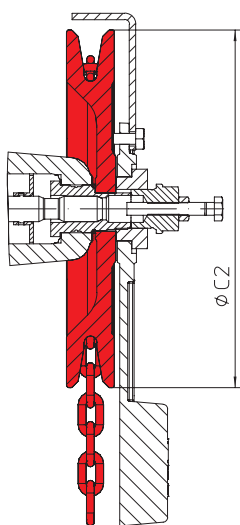
Limit switch



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

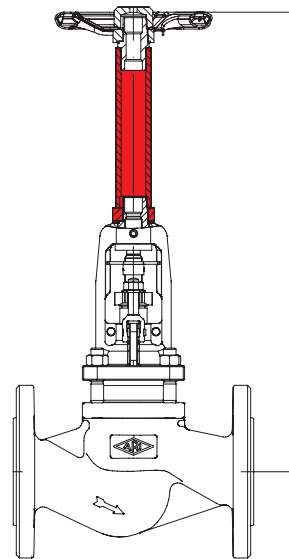
Size	DN (mm)	ØC (mm)	ØC1 (mm)
I	15-50	125	170
II	65-80	150	190
III	100-150	225	330

Handwheel-Ø from DN 65 reduced!

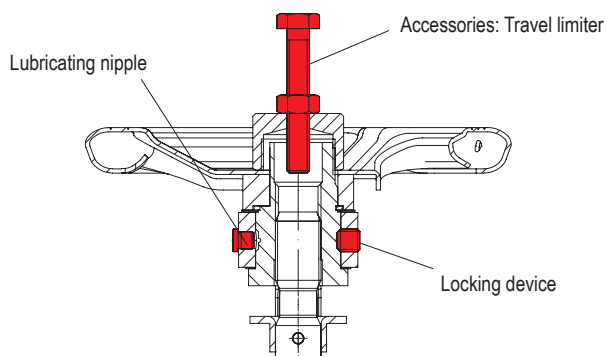


Chain wheel

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



Stem extension (please specify height in your order)



Lubricating nipple / Locking device / Travel limiter

Travel limiter
(Accessories are not included !)

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

Please indicate when ordering

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

Example:

Figure 23.046; nominal pressure PN25 drilled acc. to ANSI150; nominal diameter DN100, limit switch.