

Straight through blow down valve
DN 25 - 50

ARI-STEVI® BBD 415
Pneumatic actuator

- Air supply pressure max. 6 bar
- Options:
 - Assembly of additional devices
 - Lever

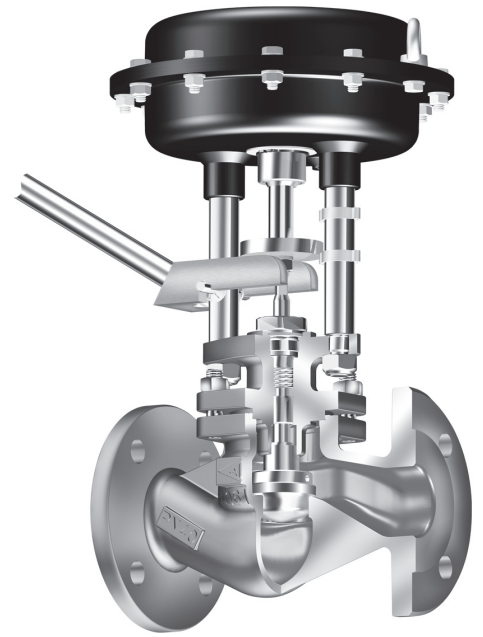
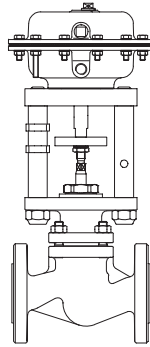


Fig. 415

Features:

- Compact design
- Precision guided stem
- Burnished stem
- Spring loaded PTFE-V ring packing unit
- Travel indicator
- Spring protected in body
- Actuator with rolling diaphragm

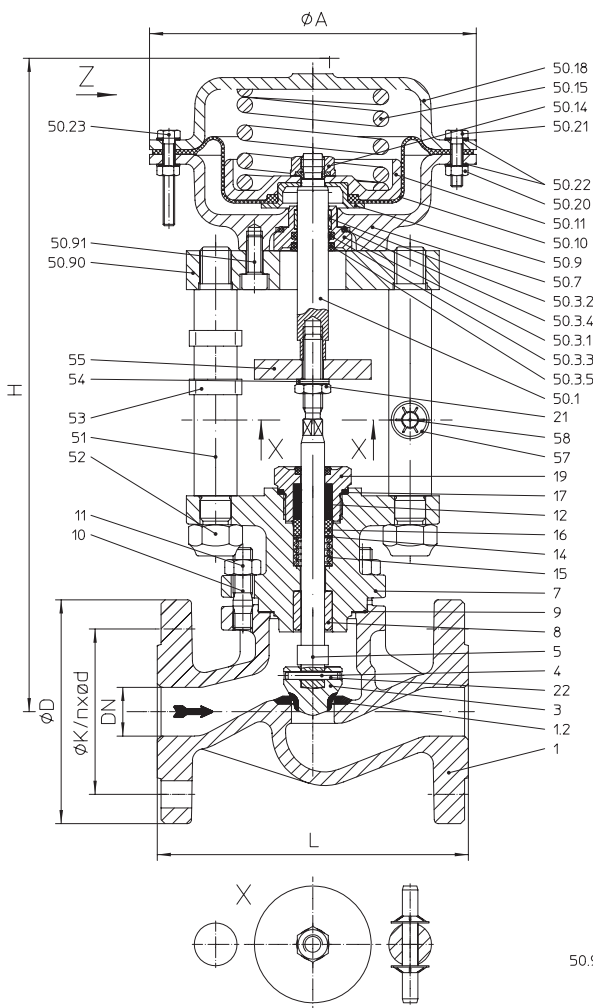
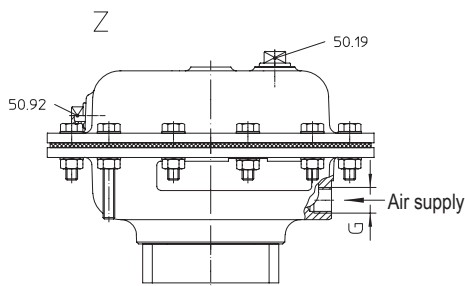
Straight through blow down valve (DN 25- 32)


Figure	Nominal pressure	Material	Nominal diameter
35.415	PN40	1.0619+N	DN 25- 32
DN 40-50 refer to page 4			
Other materials and versions on request.			
Stem sealing			
• PTFE-V-ring unit	-10°C to +220°C		
• PTFE-packing	-10°C to +250°C		
• Pure graphite-packing	-10°C to +450°C		
Plug design			
• Isolation plug with marginal seat; stellite seat and plug			
Shut off class (seat / plug leakage classes)			
• Metal seat - Leakage class 1 acc. to DIN 3230 T3 / BN			
Auxiliary energy:			
• max. perm. air supply pressure: 6 bar			
• Air supply acc. to DIN IEC 60654-2			
• Water free from dirt and corrosives, max. temperature +80°C			

Selection of possible applications

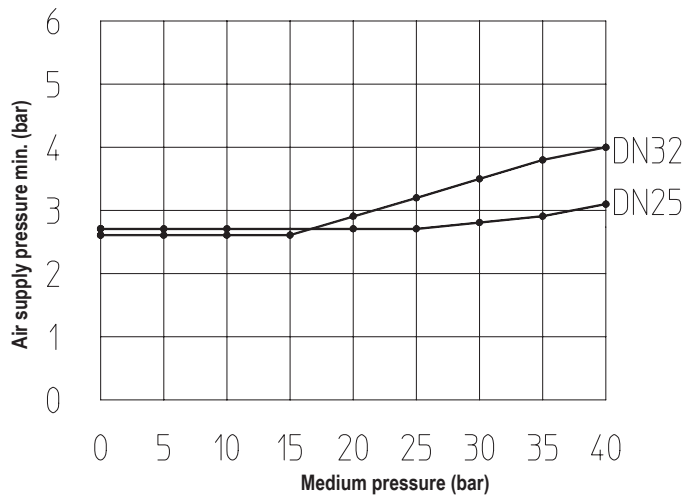
Steam boiler plants
 (for bottom blow down)
 (other applications on request)


Dimensions and weights

DN		25	32
L	(mm)	160	180
Seat-Ø	(mm)	22	27
Kvs-value		6,4	6,4
Travel	(mm)	8	7
H	(mm)	336	336
Ø A	(mm)	168	168
G	(inch)	1/4"	1/4"
Weight	(kg)	13	15

Standard-flange dimensions refer to page 7.

Face-to-face dimension FTF series 1 according to DIN EN 558



	Spring range	Filling volume
	(bar)	(l)
DN25	1,55 - 2,50	0,25
DN32	1,55 - 2,40	0,25

Parts

Pos.	Description	Fig. 35.415 DN 25 - 32
1	Body	GP240GH+N, 1.0619+N
1.2	Seat ring	Stellit 21
3	Plug *	X6CrNiMoTi17-12-2, 1.4571 / Stellit 6
4	Locking pin	X10CrNi18-8, 1.4310
5	Stem *	X20Cr13+QT, 1.4021+QT
7	Mounting bonnet	GP265GH+N, 1.0619+N
8	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)
9	Gasket *	Pure graphite (CrNi laminated with graphite)
10	Studs	25CrMo4, 1.7218
11	Hexagon nuts	C35E, 1.1181
12	V-ring unit *	PTFE
14	Washer *	X5CrNi18-10, 1.4301
15	Spring *	X10CrNi18-8, 1.4310
16	Bushing *	PTFE (reinforced)
17	Sealing ring *	Cu / Soft iron
19	Screw joint *	X8CrNiS18-9, 1.4305 / PTFE
21	Hexagon nuts	17H - A4G
22	Locking pin	X10CrNi18-8, 1.4310
50.1	Stem DP	X20Cr13+QT, 1.4021+QT
50.3.1	Stem guiding *	X20Cr13+QT, 1.4021+QT
50.3.2	Guiding band *	PTFE + 25%C
50.3.3	O-ring (Stem) *	NBR 70
50.3.4	O-ring (Guiding) *	NBR 70
50.3.5	Scraper *	PTFE GF
50.7	Lower diaphragm casing	EN-JS1049, EN-GJS-400-18U-LT
50.9	Diaphragm flange	11SMnPb30+C, 1.0718+C
50.10	Rolling diaphragm *	50 NBR 253
50.11	Diaphragm plate	11SMnPb30+C, 1.0718+C
50.14	Flange nut	8 - A4G
50.15	Spring *	SH
50.18	Upper diaphragm casing	EN-JS1049, EN-GJS-400-18U-LT
50.19	Screw cap	PP
50.20	Hexagon nut	8 - A2G
50.21	Hexagon screw	8.8 - A2G
50.22	Washer	St - A2G
50.23	Hexagon screw	8.8 - A2G
50.90	Traverse	S235JR, 1.0037
50.91	Hexagon socket head screw	8.8 - A2B
50.92	Screw cap	PP
51	Distance column	X20Cr13+QT, 1.4021+QT
52	Hexagon nut	8 - A2B
53	Hose clamp	St
54	Stem guiding	St
55	Travel indicator	X20Cr13+QT, 1.4021+QT
57	Washer disc	C75S, 1.1248
58	Straight pin	A1

* Spare parts

Information / restriction of technical rules need to be observed!

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

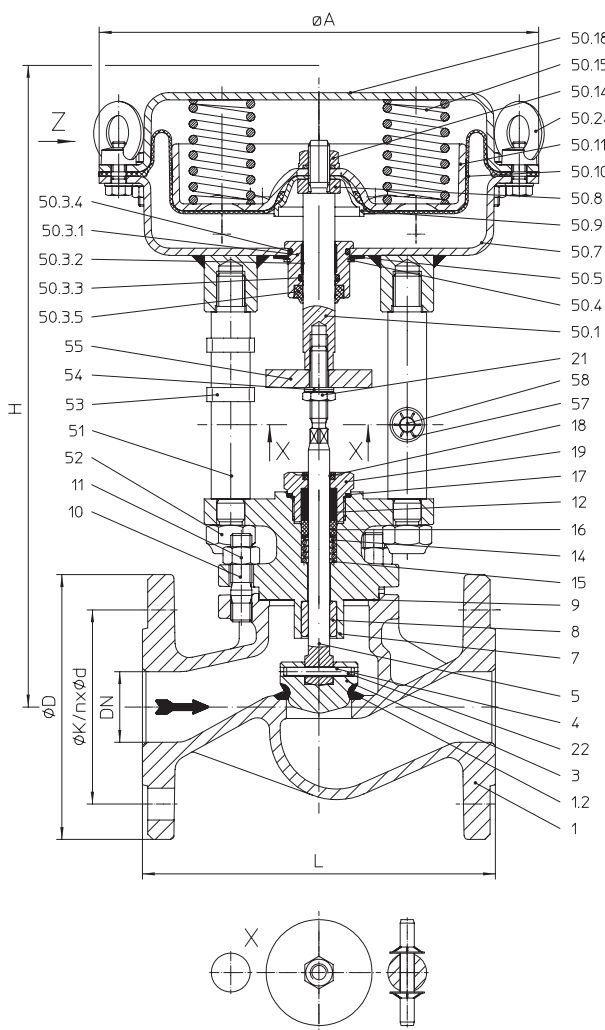
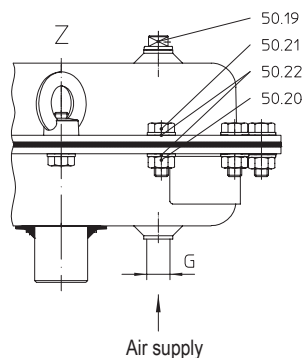
Straight through blow down valve (DN 40- 50)


Figure	Nominal pressure	Material	Nominal diameter
35.415	PN40	1.0619+N	DN 40- 50
DN 25-32 refer to page 2			
Other materials and versions on request.			
Stem sealing			
• PTFE-V-ring unit	-10°C to +220°C		
• PTFE-packing	-10°C to +250°C		
• Pure graphite-packing	-10°C to +450°C		
Plug design			
• Isolation plug with marginal seat; stellite seat and plug			
Shut off class (seat / plug leakage classes)			
• Metal seat - Leakage class 1 acc. to DIN 3230 T3 / BN			
Auxiliary energy:			
• max. perm. air supply pressure: 6 bar			
• Air supply acc. to DIN IEC 60654-2			
• Water free from dirt and corrosives, max. temperature +80°C			

Selection of possible applications

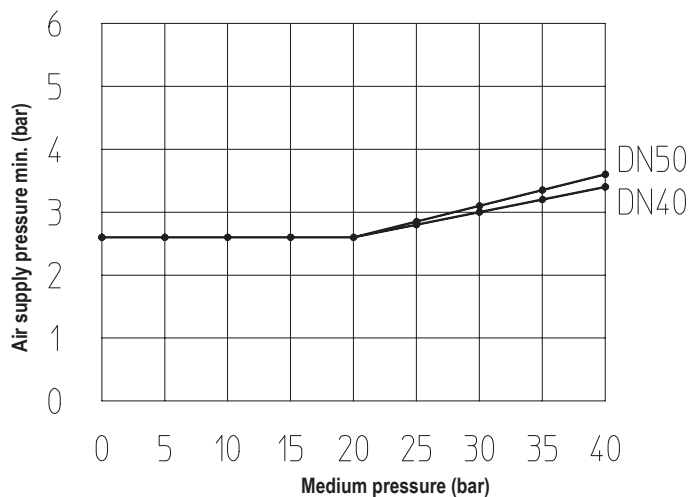
Steam boiler plants
 (for bottom blow down)
 (other applications on request)


Dimensions and weights

DN		40	50
L	(mm)	200	230
Seat-Ø	(mm)	37	47
Kvs-value		14,7	14,7
Travel	(mm)	10	13
H	(mm)	364	370
Ø A	(mm)	250	250
G	(inch)	1/4"	1/4"
Weight	(kg)	18,3	21,5

Standard-flange dimensions refer to page 7.

Face-to-face dimension FTF series 1 according to DIN EN 558



	Spring range	Filling volume
	(bar)	(l)
DN40	1,6 - 2,4	1,1
DN50	1,4 - 2,4	1,1

Parts

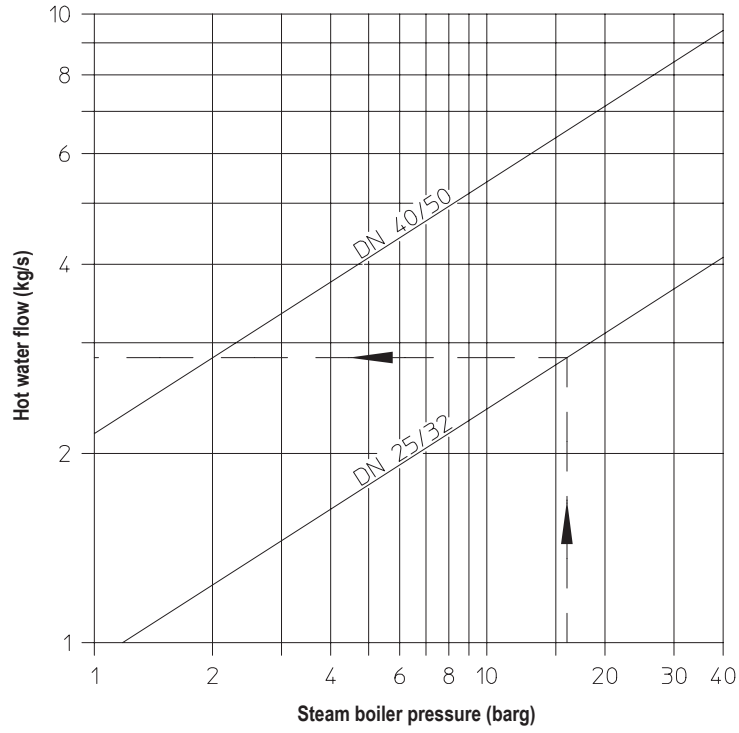
Pos.	Description	Fig. 35.415 DN 40 - 50
1	Body	GP240GH+N, 1.0619+N
1.2	Seat ring	Stellit 21
3	Plug *	X6CrNiMoTi17-12-2, 1.4571 / Stellit 6
4	Locking pin	X10CrNi18-8, 1.4310
5	Stem *	X20Cr13+QT, 1.4021+QT
7	Mounting bonnet	GP265GH+N, 1.0619+N
8	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)
9	Gasket *	Pure graphite (CrNi laminated with graphite)
10	Studs	25CrMo4, 1.7218
11	Hexagon nuts	C35E, 1.1181
12	V-ring unit *	PTFE
14	Washer *	X5CrNi18-10, 1.4301
15	Spring *	X10CrNi18-8, 1.4310
16	Bushing *	PTFE (reinforced)
17	Sealing ring *	Cu / Soft iron
19	Screw joint *	X8CrNiS18-9, 1.4305 / PTFE
21	Hexagon nuts	17H - A4G
22	Locking pin	X10CrNi18-8, 1.4310
50.1	Stem DP	X20Cr13+QT, 1.4021+QT
50.3.1	Stem guiding *	X20Cr13+QT, 1.4021+QT
50.3.2	Guiding band *	PTFE + 25%C
50.3.3	O-ring (Stem) *	NBR 70
50.3.4	O-ring (Guiding) *	NBR 70
50.3.5	Scraper *	PTFE GF
50.4	Retaining ring	FSt - A2B
50.5	Spring plate	C75S, 1.1248
50.7	Lower diaphragm casing	DD13+QT, 1.0335+QT
50.8	Bushing	X20Cr13+QT, 1.4021+QT
50.9	Diaphragm flange	DD13+QT, 1.0335+QT
50.10	Rolling diaphragm *	50 NBR 253
50.11	Diaphragm plate	DD13+QT, 1.0335+QT
50.14	Flange nut	8 - A4G
50.15	Spring *	SH
50.18	Upper diaphragm casing	DD13+QT, 1.0335+QT
50.19	Screw cap	PP
50.20	Hexagon nut	8 - A2G
50.21	Hexagon screw	8.8 - A2G
50.22	Washer	St - A2G
50.24	Eye nut	C15, 1.0401 - A4G
51	Distance column	X20Cr13+QT, 1.4021+QT
52	Hexagon nut	8 - A2B
53	Hose clamp	St
54	Stem guiding	St
55	Travel indicator	X20Cr13+QT, 1.4021+QT
57	Washer disc	C75S, 1.1248
58	Straight pin	A1

* Spare parts

Information / restriction of technical rules need to be observed!

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

Capacity chart



Standard-flange dimensions

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

DN			25	32	40	50
PN40	Ø D	(mm)	115	140	150	165
PN40	Ø K	(mm)	85	100	110	125
PN40	n x Ø d1	(mm)	4 x 14	4 x 18	4 x 18	4 x 18

Pressure-temperature-ratings acc. to manufacturers standard

Material			-10°C to +50°C	120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.0619+N	PN40	(bar)	40	40	38,1	35	32	28	25,7	23,8	13,1

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 diameter
- Nominal pressure
- Stem sealing
- Special design / accessories

Example:

Figure 35.415; Nominal diameter DN40; Nominal pressure PN40; Stem sealing PTFE-V-ring unit

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

Accessories



Lever



Solenoid valve

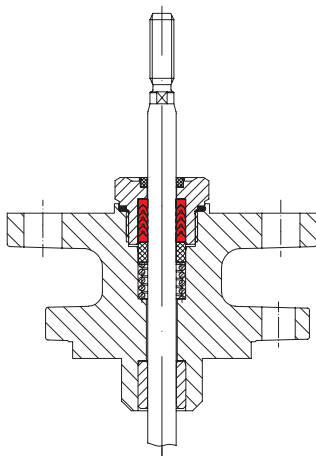


Limit switch

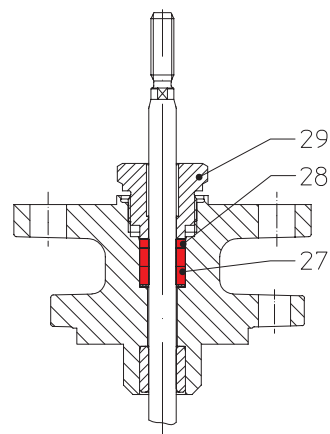


Air set including gauge (in combination with solenoid valve)

Stem sealing



Spring loaded PTFE-V ring packing unit



Pos.	Description	
27/28	Packing ring *	PTFE or Pure graphite
29	Screw joint *	X8CrNiS18-9, 1.4305

PTFE-/ Pure graphite-packing