ARI-ZETRIX®-DBB - Fig.016-DBB - Double flanged process valve with metallic sealing - Triple offset as double block and bleed
ARI-ZETRIX®-DBB - Fig.018-DBB - Threaded flange process valve with metallic sealing - Triple offset as double block and bleed
ARI-ZETRIX®-DBB - Fig.019-DBB - Butt weld ends process valve with metallic sealing - Triple offset as double block and bleed

ARI-ZETRIX®-DBB
with screwed connection

- DBB: Double Block&Bleed
- With ARI-ZETRIX® double flange
- Tube materials:
  P235GH/
  P265GH
  1.4571 / 1.4541
- Valve materials:
  1.0619+N
  1.4408

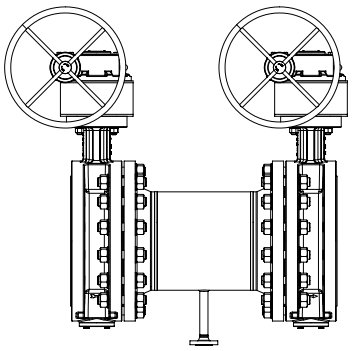


Fig. 016-DBB Page 2

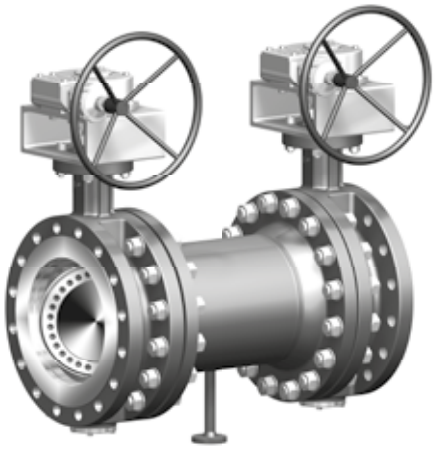


Fig. 016-DBB

ARI-ZETRIX®-DBB
with screwed connection for short face-to-face lengths

- DBB: Double Block&Bleed
- With ARI-ZETRIX® threaded flanged
- Tube materials:
  P235GH/
  P265GH
  1.4571 / 1.4541
- Valve materials:
  1.0619+N
  1.4408

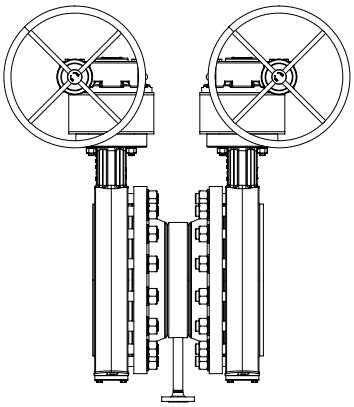


Fig. 018-DBB Page 4

ARI-ZETRIX®-DBB
with butt weld connection

- DBB: Double Block&Bleed
- Mit ARI-ZETRIX® in Schweißenden-Ausführung
- Tube materials:
  P235GH/
  P265GH
- Valve materials:
  1.0619+N

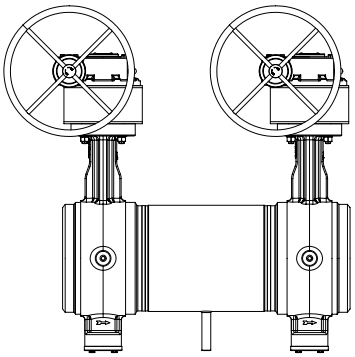


Fig. 019-DBB Page 5

Features:

- DBB: Double Block&Bleed
- Double flange, threaded flange and butt weld ends design
- Cast steel / stainless steel body
- Triple offset construction:
  Rotary movement (90°) without wear or friction
- Metallic sealing
- Stellited seat (Stellite® 21)
- Continous stem, hardened bearings
  with graphit protector ring
- Blow-out protected stem (optional: acc. to API 609)
- Vacuum-tight
- Firesafe acc. to ISO 10479 / API 607
- ATEX
- SIL
- NACE (optional)
- Packing acc. to EN ISO 15848-1/ TA-Luft (optional)

Screwed, double flanged process valve - Triple offset (Cast steel, Stainless steel)

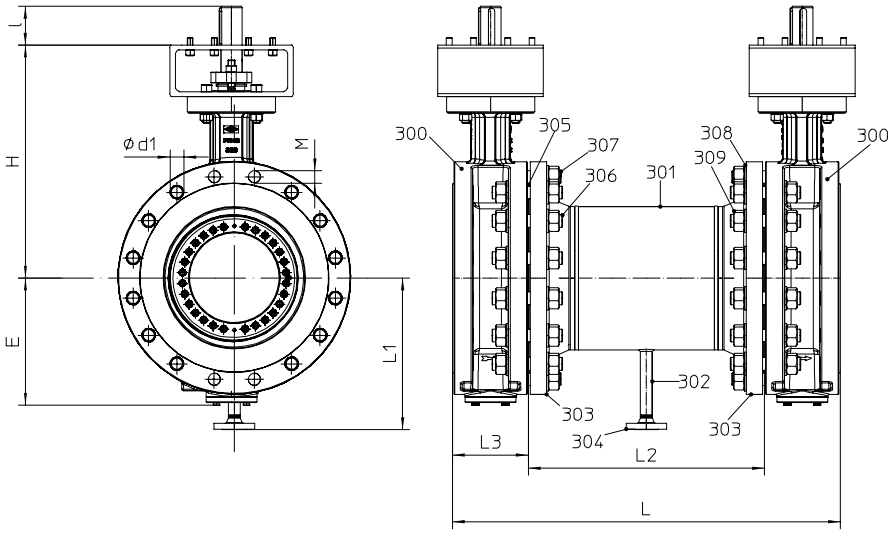


Figure	Nominal pressure	Material	Nominal diameter
30.016-DBB	PN 6	1.0619+N	DN 150-400
31.016-DBB	PN10	1.0619+N	DN 150-400
32.016-DBB	PN16	1.0619+N	DN 150-400
34.016-DBB	PN25	1.0619+N	DN 150-400
35.016-DBB	PN40	1.0619+N	DN 150-400
50.016-DBB	PN 6	1.4408	DN 150-400
51.016-DBB	PN10	1.4408	DN 150-400
52.016-DBB	PN16	1.4408	DN 150-400
54.016-DBB	PN25	1.4408	DN 150-400
55.016-DBB	PN40	1.4408	DN 150-400

Face-to-face dimension series 1 acc. to DIN EN 558 / ISO 5752

Further nominal diameter on request

Sealing element:	
• Graphite / X2CrNiMoN22-5-3, 1.4462	-60°C to 400°C
Max. differential pressure:	
• = Nominal pressure	

Actuation arrangement:	
• Worm gear • Electric actuator	• Pneumatic actuator • Hydraulic actuator
Test:	
Sealing leakage test:	• DIN EN 12266-1 Leakage rate A

Options refer datasheet ZETRIX®

Parts				
Pos.	**Sp.p.**	**Description**	**Fig. 30./31./32./34./35.016-DBB**	**Fig. 50./51./52./54./55.016-DBB**
300		ZETRIX® Fig. 016	GP240GH+N, 1.0619+N / Stellit 21	GX5CrNiMo19-11-2, 1.4408 / Stellit 21
301		Tube without seams	P235GH, 1.0345	X6CrNiMoTi17-12-2, 1.4571
302 [1)]		Tube without seams	P235GH, 1.0345	X6CrNiMoTi17-12-2, 1.4571
303		Flange	P250GH, 1.0460	X6CrNiMoTi17-12-2, 1.4571
304 [1)]		Flange	P250GH, 1.0460	X6CrNiMoTi17-12-2, 1.4571
305		Gasket	Graphite / X2CrNiMo17-12-2, 1.4404	
306		Thread bolt	25CrMo4, 1.7218	A2-70
307		Thread bolt, short	25CrMo4, 1.7218	A2-70
308		Disc	A2	
309		Hexagon nut	25CrMo4, 1.7218	A2-70
	└	Spare parts		

[1)] Bleed connection design subject to agreement

Further informations see datasheet ZETRIX®.

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.

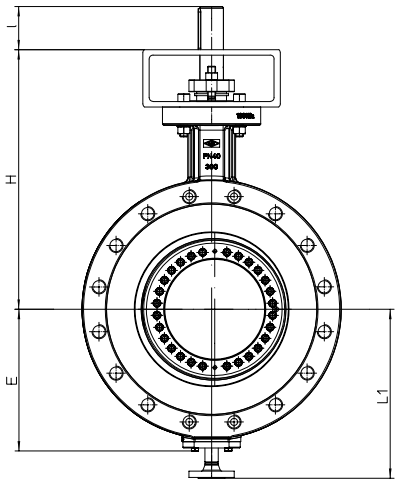
Resistance and fitness must be verified (contact manufacturer for information, refer to Product overview).

DN				80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
Face-to-face dimension series 1 acc. to DIN EN 558 / ISO 5752																				
L[1)]			(mm)	on request			480	600	730	850	980	1100	on request							
Further face-to-face dimension on request. Max. face-to-face dimension L = 1800 mm																				
Weights																				
1.0619+N	PN6	Fig. 30.016-DBB	(kg)	on request			313	420	556	143	183	231	on request							
	PN10	Fig. 31.016-DBB	(kg)				318	429	570	147	189	239								
	PN16	Fig. 32.016-DBB	(kg)				325	446	593	147	189	240								
	PN25	Fig. 34.016-DBB	(kg)				345	475	637	154	199	255								
	PN40	Fig. 35.016-DBB	(kg)				477	688	929	155	226	288								
1.4408	PN6	Fig. 50.016-DBB	(kg)	on request			324	431	569	149	192	242	on request							
	PN10	Fig. 51.016-DBB	(kg)				330	440	584	154	197	249								
	PN16	Fig. 52.016-DBB	(kg)				336	457	608	154	197	251								
	PN25	Fig. 54.016-DBB	(kg)				357	487	652	161	207	266								
	PN40	Fig. 55.016-DBB	(kg)				489	702	947	161	239	300								

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

acc. to DIN EN 1092-1	PN		-60°C to <-10°C	-10°C to 50°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C
1.0619+N / P235GH / P250GH	6	(bar)	4,5	6	5,5	5,2	5	4,5	4,1	3,8	3,5
	10	(bar)	7,5	10	9,2	8,8	8,3	7,6	6,9	6,4	5,9
	16	(bar)	12	16	14,8	14	13,3	12,1	11	10,2	9,5
	25	(bar)	18,7	25	23,2	22	20,8	19	17,2	16	14,8
	40	(bar)	30	40	37,1	35,2	33,3	30,4	27,6	25,7	23,8
1.4408 / 1.4571 / 1.4541	6	(bar)	on request	6	5,9	5,4	5	4,7	4,4	4,2	4,1
	10	(bar)		10	9,9	9	8,4	7,9	7,4	7,1	6,8
	16	(bar)	16	16	15,8	14,5	13,4	12,7	11,8	11,4	10,9
	25	(bar)	25	25	24,7	22,7	21	19,8	18,5	17,8	17,1
	40	(bar)	40	40	39,6	36,3	33,7	31,8	29,7	28,5	27,4

Screwed, fully lugged process valve - Triple offset (Cast steel, Stainless steel)



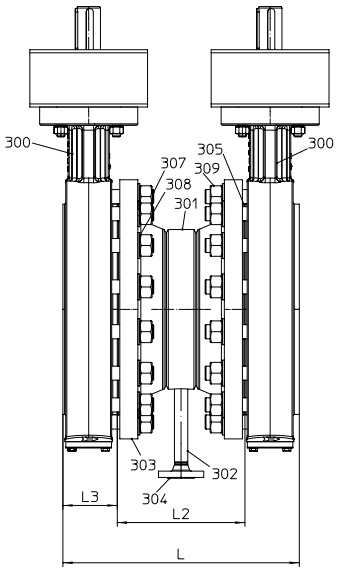


Figure	Nominal pressure	Material	Nominal diameter
30.018-DBB	PN 6	on request	
31.018-DBB	PN10	1.0619+N	DN 150-400
32.018-DBB	PN16	1.0619+N	DN 150-400
34.018-DBB	PN25	1.0619+N	DN 150-400
35.018-DBB	PN40	1.0619+N	DN 150-400
36.018-DBB	PN63	on request	
37.018-DBB	PN100		

50.018-DBB	PN 6	on request	
51.018-DBB	PN10	1.4408	DN 150-400
52.018-DBB	PN16	1.4408	DN 150-400
54.018-DBB	PN25	1.4408	DN 150-400
55.018-DBB	PN40	1.4408	DN 150-400
56.018-DBB	PN63	on request	
57.018-DBB	PN100		

Length as specified by customer (short face-to-face lengths)
Further nominal diameter on request

Sealing element:	
• Graphit / X2CrNiMoN22-5-3, 1.4462	-60°C to 400°C
Max. differential pressure:	
• = Nominal pressure	

Actuation arrangement:	
• Worm gear • Electric actuator	• Pneumatic actuator • Hydraulic actuator
Test:	
Sealing leakage test:	• DIN EN 12266-1 Leakage rate A

Options refer datasheet ZETRIX®

Parts				
Pos.	**Sp.p.**	**Description**	**Fig. 30./31./32./34./35./36./37.018-DBB**	**Fig. 50./51./52./54./55./56./57.018-DBB**
300		ZETRIX® Fig. 018	GP240GH+N, 1.0619+N / Stellit 21	GX5CrNiMo19-11-2, 1.4408 / Stellit 21
301		Tube without seams	P235GH, 1.0345	X6CrNiMoTi17-12-2, 1.4571
302 [1)]		Tube without seams	P235GH, 1.0345	X6CrNiMoTi17-12-2, 1.4571
303		Flange	P250GH, 1.0460	X6CrNiMoTi17-12-2, 1.4571
304 [1)]		Flange	P250GH, 1.0460	X6CrNiMoTi17-12-2, 1.4571
305		Gasket	Graphite / X2CrNiMo17-12-2, 1.4404	
307		Thread bolt, short	25CrMo4, 1.7218	A2-70
308		Disc	A2	
309		Hexagon nut	25CrMo4, 1.7218	A2-70
	└	Spare parts		

[1)] Bleed connection design subject to agreement

Weights
The weights of the fully lugged version depend on the length specified by the customer.

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

acc. to DIN EN 1092-1	PN		-60°C to <-10°C	-10°C to 50°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C
1.0619+N / P235GH / P250GH	6	(bar)	4,5	6	5,5	5,2	5	4,5	4,1	3,8	3,5
	10	(bar)	7,5	10	9,2	8,8	8,3	7,6	6,9	6,4	5,9
	16	(bar)	12	16	14,8	14	13,3	12,1	11	10,2	9,5
	25	(bar)	18,7	25	23,2	22	20,8	19	17,2	16	14,8
	40	(bar)	30	40	37,1	35,2	33,3	30,4	27,6	25,7	23,8
	63	(bar)	on request								
	100	(bar)									
1.4408 / 1.4571 / 1.4541	6	(bar)	on request	6	5,9	5,4	5	4,7	4,4	4,2	4,1
	10	(bar)		10	9,9	9	8,4	7,9	7,4	7,1	6,8
	16	(bar)	16	16	15,8	14,5	13,4	12,7	11,8	11,4	10,9
	25	(bar)	25	25	24,7	22,7	21	19,8	18,5	17,8	17,1
	40	(bar)	40	40	39,6	36,3	33,7	31,8	29,7	28,5	27,4
	63	(bar)	on request								
	100	(bar)									

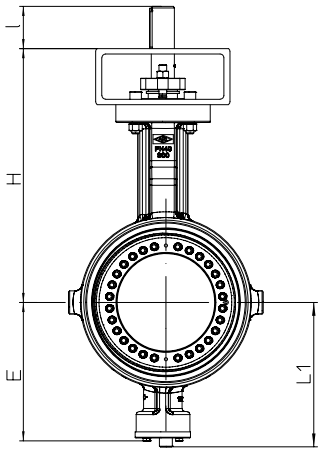
Further informations see datasheet ZETRIX®.

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.

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

Welded process valve - Triple offset (Cast steel, Stainless steel)



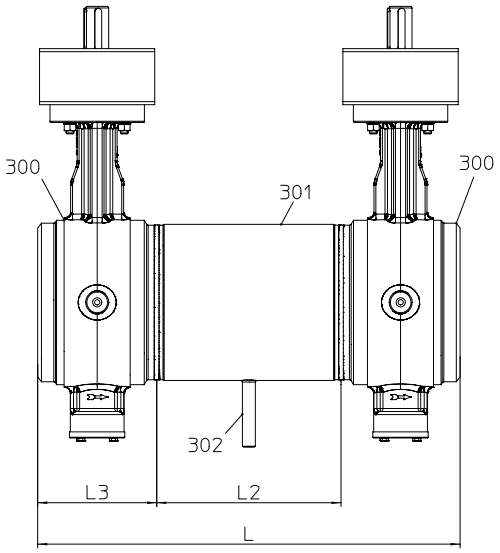


Figure	Nominal pressure	Material	Nominal diameter
30.019-DBB	PN6	1.0619+N	DN 150-400
31.019-DBB	PN10	1.0619+N	DN 150-400
32.019-DBB	PN16	1.0619+N	DN 150-400
34.019-DBB	PN25	1.0619+N	DN 150-400
35.019-DBB	PN40	1.0619+N	DN 150-400

Baulänge Grundreihe 1 nach DIN EN 12982
Further nominal diameter on request

Sealing element:	
• Graphit / X2CrNiMoN22-5-3, 1.4462	-60°C to 400°C
Max. differential pressure:	
• = Nominal pressure	

Actuation arrangement:	
• Worm gear • Electric actuator	• Pneumatic actuator • Hydraulic actuator
Test:	
Sealing leakage test:	• DIN EN 12266-1 Leakage rate A

Options refer datasheet ZETRIX®

Parts			
Pos.	**Sp.p.**	**Description**	**Fig. 30./31./32./34./35.019-DBB**
300		ZETRIX® Fig. 019	GP240GH+N, 1.0619+N / Stellit 21
301		Tube without seams	P235GH, 1.0345
302 [1)]		Tube without seams	P235GH, 1.0345
	└ Spare parts		

[1)] Bleed connection design subject to agreement

DN	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**	**600**

Face-to-face dimension series 1 acc. to DIN EN 12982												
L [1)]	(mm)	on request		480	600	730	850	980	1100	on request		
Further face-to-face dimension on request. Max. face-to-face dimension L = 1800 mm												

Weights															
1.0619+N	PN6	Fig. 30.019-DBB	(kg)	77	109	144	201	244	356	77	109	144	201	244	356
	PN10	Fig. 31.019-DBB	(kg)	77	109	144	201	244	356	77	109	144	201	244	356
	PN16	Fig. 32.019-DBB	(kg)	77	109	144	201	247	360	77	109	144	201	247	360
	PN25	Fig. 34.019-DBB	(kg)	77	109	145	203	247	363	77	109	145	203	247	363
	PN40	Fig. 35.019-DBB	(kg)	77	123	168	247	364	467	77	123	168	247	364	467

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

acc. to DIN EN 1092-1	**PN**		**-60°C to <-10°C**	**-10°C to 50°C**	**100°C**	**150°C**	**200°C**	**250°C**	**300°C**	**350°C**	**400°C**
1.0619+N / P235GH	6	(bar)	4,5	6	5,5	5,2	5	4,5	4,1	3,8	3,5
	10	(bar)	7,5	10	9,2	8,8	8,3	7,6	6,9	6,4	5,9
	16	(bar)	12	16	14,8	14	13,3	12,1	11	10,2	9,5
	25	(bar)	18,7	25	23,2	22	20,8	19	17,2	16	14,8
	40	(bar)	30	40	37,1	35,2	33,3	30,4	27,6	25,7	23,8

Further informations see datasheet ZETRIX®.

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.

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

Kvs-value / Zeta-value (Fig. 016, 018, 019)																		
DN			**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**	**600**	**700**	**800**	**900**	**1000**	**1200**
PN6/10	Kvs-value	(m^3/h)	on request																
	Zeta-value	--																	
PN16/25	Kvs-value	(m^3/h)																	
	Zeta-value	--																	
PN40	Kvs-value	(m^3/h)																	
	Zeta-value	--																	

For more information on actuators, connections and optional components, see the ZETRIX® data sheet.

myValve® - Your Valve Sizing-Program.

myValve® is a powerful software tool that not only helps you size your system components; it also gives you instant access to all other data about the selected product, such as order information, spare parts drawings, operating instructions, data sheets, etc., whenever you need it.

Contents:

Module ARI-process valve ZETRIX-calculation

- Sizing of flow quantity Kv, volume flow Q, pressure drop p, sound level; Selecting the valve size with given capacity; Selection of the actuator.
  Calculation of torque for actuators in flow from shaft side and flow from disc side, as well as dynamic torque curves to show the maximum value and the opening angle at which it is reached.

Media:

Integrated media-data bank (more than 160 media) with conditions:

- Vapours / gases
- Steam (saturated and superheated)
- Liquids

Special features:

- Project administration of the calculation and product data incl. spare part drawings concerning to project and tag number.
- Direct output or calculation and product data in PDF format.
- Product data could be taken for a direct order.
- SI- and ANSI-units with direct conversion to another data bank.
- Settings with over pressure or absolute pressure.
- All ARI valves are integrated in a data bank.
- Direct access concerning to the product on data sheets, operating instructions, pressure-temperature-diagram and spare part drawings
- Operation in company networks possible (no complex installations on individually PC's necessary).
- Extensive catalogue extending over several product groups.

System Requirements:

Windows operating systems, Linux, etc.