

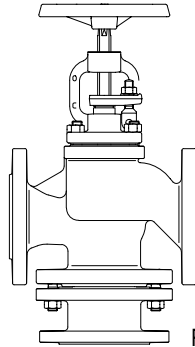
ARI-Changeover valve with gland seal



ARI-Changeover valve with flanges

- TRB 801 No.45 (except GG-25)

Cast iron
Cast steel
BR 017



Page 2



BR 017

Features:

- Proven technology
- Solid plug made of stainless material
- Solid stem made of stainless material
- Solid seat made of stainless material
- Stem with roll hardened thread
- Burnished stem
- High-tensile gland packing
- Bonnet top with threaded bush on valves made of 1.0619+N
- Gland packing with eyebolts on valves made of 1.0619+N
- Favourable zeta-values for small diameters



ARI-Changeover valve with gland seal, made of cast iron and cast steel

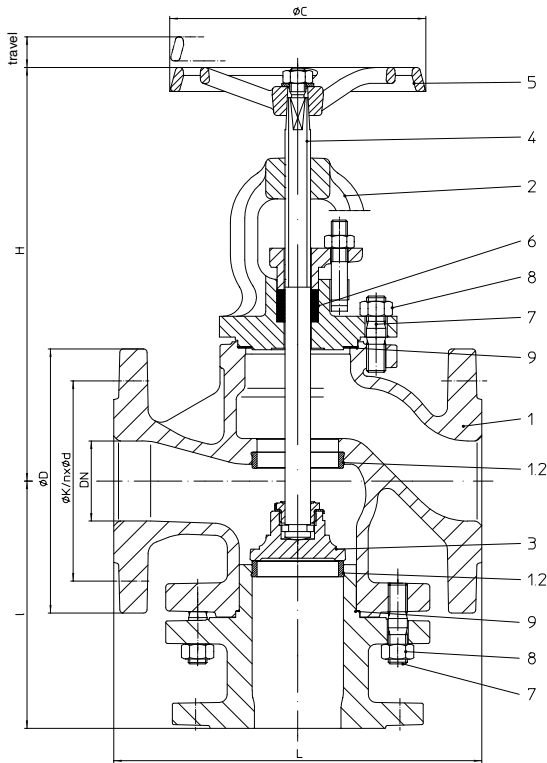


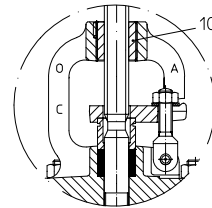
Figure	Nominal pressure	Material	Nominal diameters
12.017	PN 16	GG-25	DN 15-250
34.017	PN 25	1.0619+N	DN 15-250
35.017	PN 40		DN 15-250

Selection of possible applications:

- Industry
- Powerstations
- Flue gas purification plant
- Vapour facilities
- Recycling facilities
- Shipbuilding
- General plant manufacturing

- other applications on request -

Design Fig. 34./35.017 (1.0619+N)



Bonnet with threaded bush (10) and pivot mounted bolts

Weights (kg)

Figure-No.	DN	15	20	25	32	40	50	65	80	100	125	150	200	250
12.017		6,5	7,9	10,9	13,0	18,0	20,3	29,9	42,5	59,0	70,0	125,0	155,0	290,0
34.017		7,0	7,9	11,0	13,9	18,8	21,9	32,0	45,6	64,0	99,0	112,0	167,0	320,0
35.017		7,0	7,9	11,0	13,9	18,8	21,9	32,0	45,6	64,0	99,0	112,0	177,0	338,0

Figure		12.017	34.017; 35.017
Pos.	Description	Material, Material-No.	
1	Body	GG-25, 0.6025	1.0619+N, 1.0619.01
1.2	Seat	X 20 Cr 13, 1.4021.05	
2	Bonnet	GG-25, 0.6025	DN ≤ 80: C 22.8, 1.0460 DN > 80: 1.0619+N, 1.0619.01
3	Plug	DN ≤ 200: X 20 Cr 13, 1.4021.05 DN > 200: P265 GH, 1.0425 - G19 9 Nb Si, 1.4551	
4	Stem	X20Cr13+QT, 1.4021+QT burnished	
5	Handwheel	GG-25, 0.6025	
6	Gland packing	Pure graphite	
7	Studs	25CrMo4, 1.7218	
8	Hexagon nuts	C35E, 1.1181	
9	Gasket	CrNi laminated both sides with pure graphite	
10	Threaded bush	--	11SMnPb30+C, 1.0718+C

Information / restrictions of technical rules have to be observed!

Operating instructions can be ordered on request by phone (+49 52 07) 994-0 or fax (+49 52 07) 994-158 or 159.

ARI-valves made of GG-25 are not allowed to be operated in systems according to TRD 110.

A production allowance according to TRB 801 No. 45 exists (according to TRB 801 No. 45 GG-25 is not allowed).

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

Dimensions, Kvs- and Zeta-values

DN	L	I	H	Travel	∅C	Kvs-values		Zeta-values	
						→	↓	→	↓
15	130	120	207	30	140	4,0	4,4	4,8	4,0
20	150	120	207	30	140	6,3	7,0	6,2	5,0
25	160	140	227	35	160	10,0	11,0	6,0	4,9
32	180	140	227	35	160	16,0	18,0	6,3	5,2
40	200	165	270	45	180	25,0	28,0	6,3	5,2
50	230	165	270	45	180	40,0	44,0	6,0	4,9
65	290	180	292	50	200	63,0	70,0	6,9	5,6
80	310	195	340	60	225	100,0	110,0	6,3	5,2
100	350	225	371	65	250	160,0	176,0	6,0	4,9
125	400	260	429	75	300	250,0	275,0	6,0	4,9
150	480	300	530	75	520	375,0	410,0	5,0	4,6
200	600	350	562	90	520	630,0	700,0	6,7	5,0
250	730	440	665	90	520	1000,0	1100,0	6,0	4,9

Zeta-value ... range of tolerance for Kvs-values acc. to DIN EN 60534.

Dimensions of flanges see on the bottom or refer to the ARI quick reference slide chart (available on request).

Changeover valve with flanges: **Face-to-face dimension FTF series 1 according to DIN EN 558-1 (DIN3202-1 series F1)**

Standard - flange dimensions

DN	PN 16			PN 25			PN 40		
	∅ D	∅ K	n x ∅ d1	∅ D	∅ K	n x ∅ d1	∅ D	∅ K	n x ∅ d1
15	95	65	4 x 14	95	65	4 x 14	95	65	4 x 14
20	105	75	4 x 14	105	75	4 x 14	105	75	4 x 14
25	115	85	4 x 14	115	85	4 x 14	115	85	4 x 14
32	140	100	4 x 18	140	100	4 x 18	140	100	4 x 18
40	150	110	4 x 18	150	110	4 x 18	150	110	4 x 18
50	165	125	4 x 18	165	125	4 x 18	165	125	4 x 18
65	185	145	4 x 18	185	145	8 x 18	185	145	8 x 18
80	200	160	8 x 18	200	160	8 x 18	200	160	8 x 18
100	220	180	8 x 18	235	190	8 x 22	235	190	8 x 22
125	250	210	8 x 18	270	220	8 x 26	270	220	8 x 26
150	285	240	8 x 22	300	250	8 x 26	300	250	8 x 26
200	340	295	12 x 22	360	310	12 x 26	375	320	12 x 30
250	405	355	12 x 26	425	370	12 x 30	450	385	12 x 33

Please indicate when ordering:

1. Figure-No.
2. Nominal pressure
3. Nominal diameters

Example:

Figure 35.017; nominal pressure PN40; nominal diameter DN100.

Dimensions in mm
Weights in kg
1 bar ≙ 10 ⁵ Pa ≙ 0,1 MPa
Kvs in m ³ /h
1Kvs ≙ 1,16 Cv (US)

Leakage rate according to DIN 3230 T3 (leakage rate 1)
 Alternative description according to DIN 3356 „valves“

Differential pressure table

Nominal diameter	DN	125	150	200	250
max. differential pressure	Δp	25 bar	21 bar	14 bar	9 bar

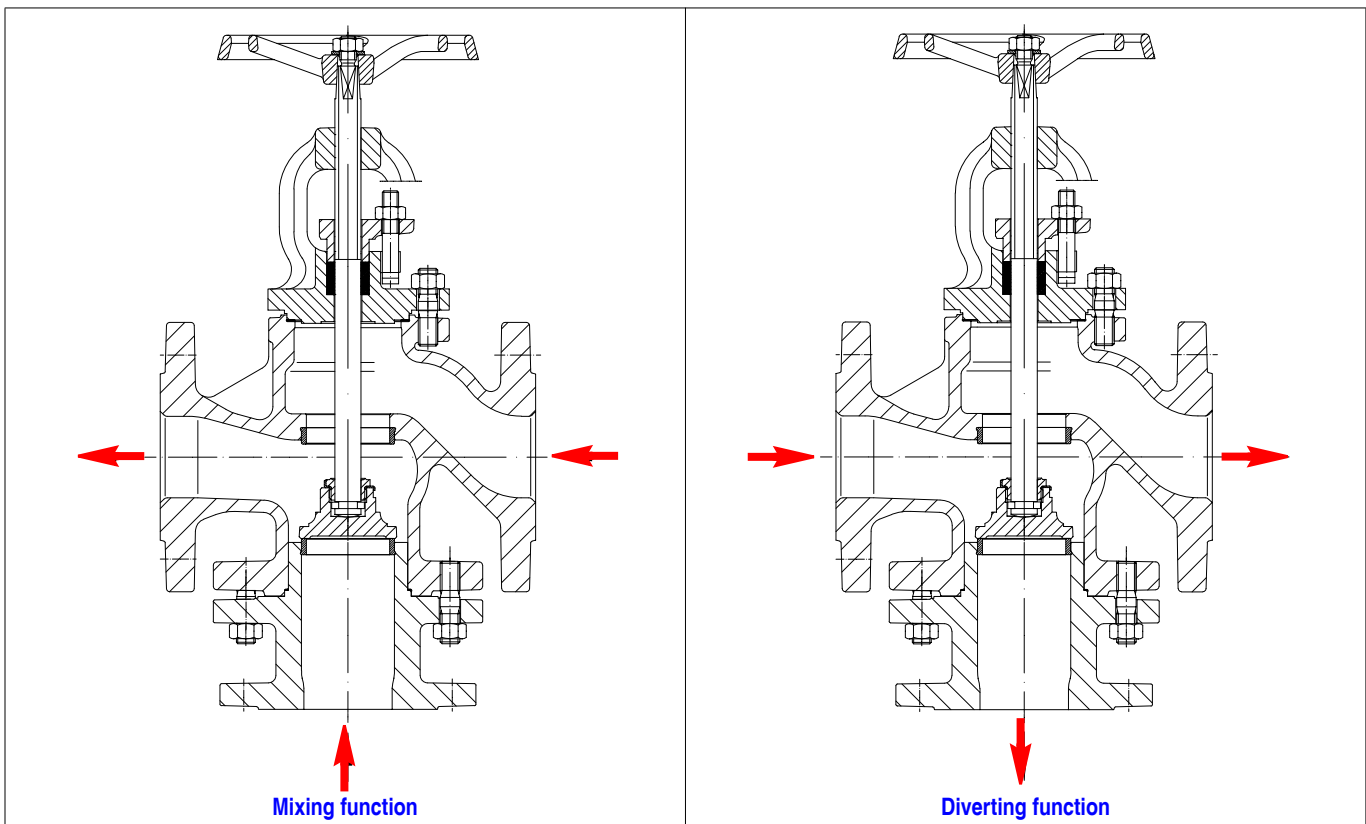
Pressure-temperature-ratings acc. to DIN EN 1092-1/-2

Flangeholes / -thickness tolerances acc. to DIN 2533 / DIN 2544 / DIN 2545

Material	PN	Temperature										
		-60°C up to <-10°C*	-10°C	20°C	120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
GG-25	16	---	16 bar	16 bar	16 bar	14,4 bar	12,8 bar	11,2 bar	9,6 bar	---	---	---
Material	PN	Temperature										
		-60°C up to <-10°C*	-10°C	20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.0619+N	25	12,5 bar	25 bar	25 bar	23,3 bar	21,7 bar	19,4 bar	17,8 bar	16,1 bar	15 bar	14,4 bar	13,9 bar
	40	20 bar	40 bar	40 bar	37,3 bar	34,7 bar	30,2 bar	28,4 bar	25,8 bar	24 bar	23,1 bar	22,2 bar

Intermediate values for max. permissible operational pressures can be determined by linear interpolation of the given temperature / pressure chart only from 120°C / 100°C upwards.

* Studs and nuts made of A4-70



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 GERMAN QUALITY VALVES

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