

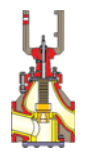
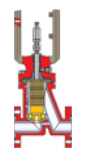
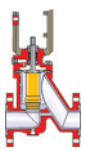
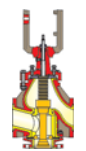
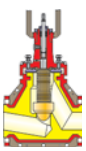

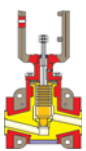
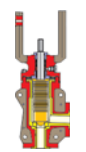
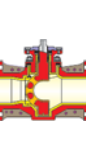


Products for all industrial applications







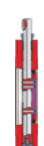
PRODUCT RANGE

SAMSON PFEIFFER CHEMIE-ARMATURENBAU GMBH

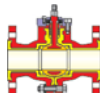
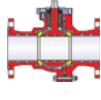
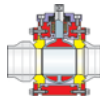
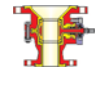
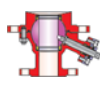

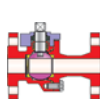
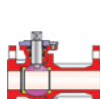
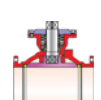
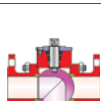
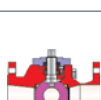
CONTROL VALVES

BR	Description	Image	Version	Page
01a	Globe valve		PTFE	4
01b	Globe valve		PFA	6
01c	Aseptic valve		PFA	6
01d	Three-way valve		PTFE	4
01z	Globe valve		PTFE	4
03a	Bottom drain valve		PTFE	5
06a	Micro-flow valve		PTFE	5
08a	Angle valve		PTFE	5
23e	Rotary plug valve		PTFE	15

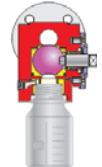


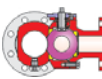
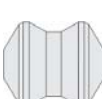
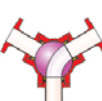
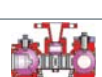
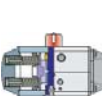
BUTTERFLY VALVES

BR	Description	Image	Version	Page
10a	Double eccentric control and butterfly valve		M-PTFE	7
10e	Centric control and butterfly valve		PTFE	7
11e	Centric control and butterfly valve		EPDM	7
14b	Double eccentric control and shut-off butterfly valve		Steel, stainless steel	8
14e	Centric butterfly valve		Stainless steel, special material	9
14p	Double eccentric control and shut-off butterfly valve, PSA version		Steel, stainless steel	9
14t	Triple eccentric control and shut-off butterfly valve		Steel, stainless steel	9

BALL VALVES

BR	Description	Image	Version	Page
20a	Ball valve		PTFE	10
20b	Ball valve		PFA	11
20c	Ball valve for glass pipelines		PFA	11
21a	Drain ball valve		PTFE	10
22a	Bottom drain ball valve		Stainless steel, special material	14
24s	Spacer		PTFE	10
26a	Ball valve		Stainless steel, special material	12
26d	Ball valve		Stainless steel	12
26e 26s	Ball valve with trunnion-mounted ball		Stainless steel, special material	13
26l,t 26v 26w 26x	Multi-port ball valve in horizontal and vertical versions		Stainless steel, special material	14
51b	Safety shut-off ball valve for block and bleed applications		Stainless steel	15

SYSTEMS TECHNOLOGY

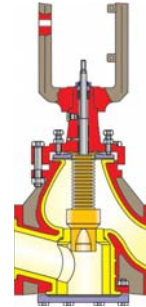
BR	Description	Image	Version	Page
27a	Discontinuous inline sample valve		Stainless steel	18
27d			PFA	18
27g			Stainless steel	18
27h			Stainless steel	18
27i			Stainless steel	18
27l			PFA	18
27b	Continuous end-of-line sample valve		Stainless steel	19
27c			Stainless steel	19
27e			PFA	19
27k			Stainless steel	19
27m			PFA	19
22			Stainless steel	19
27f	Continuous inline sample valve		Stainless steel	17
27p			PFA	17
28a	Piggable metering valve		Stainless steel	22
28e	Docking pig ball valve			22
28t	Piggable three-way ball valve			22
28u	Piggable segment ball valve			22
28y	Piggable ball valve			22
28z	End station			22
28m	Pig			21
28s	Control panel			24
29a	Three-way diverting valve		Stainless steel	24
29b	5/4-way diverting valve			24
28	Valve combinations and pipeline constructions		Stainless steel	25
30a	Multi-turn diaphragm actuator			26
31a	AT quarter-turn actuator			29

CONTROL VALVES

BR 01a

PTFE-lined globe valve

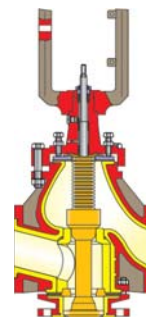
- DN 25 to 150/NPS 1 to 6
- 5 to 8 mm thick PTFE lining
- Optimal control design
- Trim in special materials
- Suitable for high differential pressures
- Standard with PTFE bellows



BR 01d

PTFE-lined three-way valve

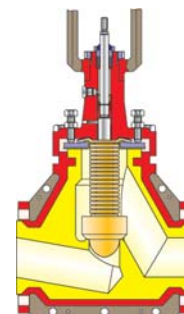
- DN 25 to 150/NPS 1 to 6
- Designed as a three-way valve
- 5 to 8 mm thick PTFE lining
- Optimal control design
- Trim in special materials
- Suitable for high differential pressures
- Standard with PTFE bellows



BR 01z

PTFE-lined globe valve

- DN 20 to 100
- 5 to 8 mm thick PTFE lining
- Optimal control design
- Trim in special materials
- Suitable for high differential pressures
- Standard with PTFE bellows



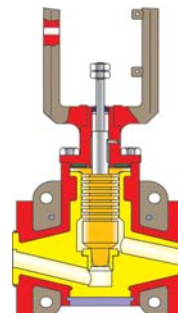
	BR 01a	BR 01d	BR 01z
Valve size	DN 25 to 150/NPS 1 to 6	DN 25 to 150/NPS 1 to 6	DN 20 to 100
Pressure rating	PN 10 and 16		
Temperatures	-42 to 200 °C	-40 to 200 °C	-10 to 150 °C
K _{vs} coefficient	0.005 to 300	4 to 260	0.01 to 125
Face-to-face dimensions	DIN EN 558, Series 1 and 37		DIN EN 558, Series 1
Body material	ENJS 1049 (0.7043)/PTFE		
Conductivity for	Ex zone 0 possible		
See data sheet	TB 01a_EN	TB 01d_EN	TB 01z_EN

CONTROL VALVES

BR 06a

PTFE-lined micro-flow valve

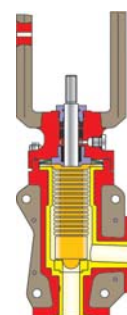
- DN 6 to 15
- Min. 5 mm thick PTFE lining
- Trim in special materials
- Control of low flow rates possible
- Standard with PTFE bellows



BR 08a

PTFE-lined angle valve

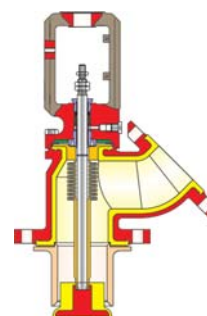
- DN 15 to 50
- Min. 5 mm thick PTFE lining
- Parts subject to wear exchangeable
- Face-to-face dimensions according to DIN and ANSI
- Standard with PTFE bellows
- Trim or components in special materials



BR 03a

PTFE-lined bottom drain valve

- DN 100/80
- Min. 5 mm thick PTFE lining
- Trim in special materials
- Standard with PTFE bellows



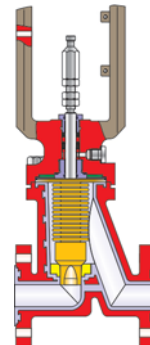
	BR 03a	BR 06a	BR 08a
Valve size	DN 100/80	DN 6 to 15	DN 15 to 50
Pressure rating	PN 10/16		
Temperatures	-10 to 150 °C		-10 to 150 °C
K _{vs} coefficient	0.05 to 3.5		0.005 to 25
Face-to-face dimensions	130 mm		DIN EN 558, Series 8
Body material	ENJS 1049 (0.7043)/PTFE		
Conductivity for	Ex zone 0 possible		
See data sheet	TB 03a_EN	TB 06a_EN	TB 08a_EN

CONTROL VALVES

BR 01b

PFA-lined globe valve

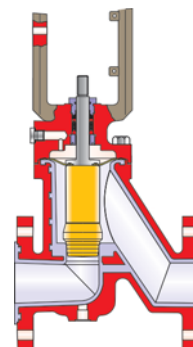
- DN 25 to 100/NPS 1 to 4
- 3 to 5 mm thick PFA lining
- Easy to access for maintenance (modular design)
- Trim in special materials
- Backup PTFE V-ring packing
- Standard with PTFE bellows



BR 01c

PFA-lined aseptic valve

- DN 25 to 50/NPS 1 to 2
- 3 to 5 mm thick PFA lining
- Design free of cavities
- Materials with FDA approval
- Suitable for sterilization using superheated steam
- Suitable for media that crystallize
- EPDM diaphragm with PTFE coating



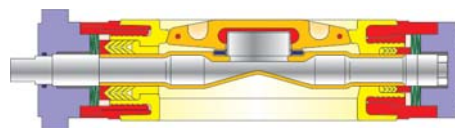
	BR 01b	BR 01c
Valve size	DN 25 to 100/NPS 1 to 4	DN 25 to 50/NPS 1 to 2
Pressure rating	PN 10 and 16/cl150	
Temperatures	-40 to 200 °C	-10 to 140 °C
K _{V5} coefficient	0.005 to 125	0.005 to 25
Face-to-face dimensions	DIN EN 558, Series 1 and 37	
Body material	EN-JS 1049 (0.7043)/PFA · A395/PFA	EN-JS 1049 (0.7043)/PFA
Data sheet	TB 01b_EN	TB 01c_EN

BUTTERFLY VALVES

BR 10a

Double eccentric control and shut-off butterfly valve with M-PTFE lining

- DN 100 to 800/NPS 4 to 32
- PN 10 (16)/cl150
- 8 to 12 mm thick M-PTFE lining
- Wafer-type or lug-type body
- Double eccentric
- Bi-directional seal
- Wide control range
- Low breakaway torque
- PTFE V-ring packing (TA-Luft) loaded on both sides by Belleville washers
- Option: shaft/washer made of special material, PN 25 with special length

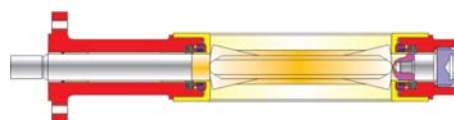


Unique worldwide

BR 10e

Centric control and shut-off butterfly valve with PTFE lining

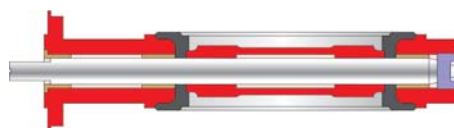
- DN 50 to 400/NPS 2 to 16
- PN 10 and 16/cl150
- Min. 3 mm thick PTFE lining
- Long neck version
- Wafer-type or lug-type body
- Butterfly disk with PTFE liner or metal-seated (Duplex)
- PTFE packing (TA-Luft) loaded on both sides by Belleville washers
- Option: conductive PTFE lining, special primary seal



BR 11e

Centric control and shut-off butterfly valve with EPDM liner

- DN 50 to 1200/NPS 2 to 48
- PN 10 and 16/cl150
- Wafer-type or lug-type body
- Washer made of stainless steel
- Vulcanized EPDM liner



	BR 10a	BR 10e	BR 11e
Valve size	DN 100 to 800/NPS 4 to 32	DN 50 to 400/NPS 2 to 16	DN 50 to 1200/NPS 2 to 8
Pressure rating	PN 10/cl150	PN 10 and 16/cl150	PN 10 and 16/cl150
Temperatures	-40 to 200 °C	-40 to 200 °C	-23 to 125 °C
Face-to-face dimensions	DIN EN 558, Series 16	DIN EN 558, Series 20 and API 609 cl150	DIN EN 558, Series 20 and API 609 cl150
Body material	ENJS 1049 (0.7043)/M-PTFE A395/M-PTFE	ENJS 1049 (0.7043)/PTFE A395/PTFE	1.0619 (ENJS 1049)/PTFE A216 WCB/PTFE
Data sheet	TB 10a_EN	TB 10e_EN	TB 11e_EN

BUTTERFLY VALVES

BR 14b

Double eccentric control and shut-off butterfly valve

- DN 50 to 800/NPS 2 to 32
- PN 10 to 40/cl150 and 300
- Extensive control range
- Wafer-type and lug-type body
- Low breakaway torque
- Flange drill pattern according to DIN and ANSI
- Blowout-proof shaft
- Long neck version
- Continuous raised face
- Soft seal or metal seal available
- Leakage class VI and DIN EN 12266, leakage rate A (bi-directional) possible

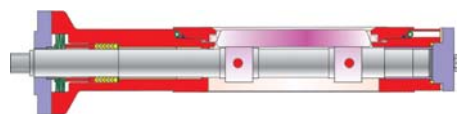
Excerpt from the options catalogue

- Double packing
- Additional primary seal available
- Components made of special material
- Valve sizes above DN 800 on request
- All types of steel and stainless steel
- -196 to 550 °C
- Different temperature ranges on request
- Valve entirely made of special material titanium, Hastelloy®, Monel®, zirconium etc.

Versions

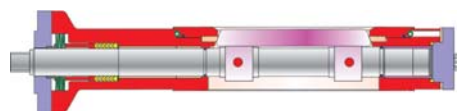
Type WTD

- Bi-directional soft seal
- PTFE V-ring packing
- Maintenance-free, loaded by Belleville washers (TA-Luft)



Type MTD

- Bi-directional metal seal
- Fire-safe according to API 5th edition
- PTFE V-ring packing/graphite packing
- Maintenance-free, loaded by Belleville washers (TA-Luft)



	BR 14b – Type WTD	BR 14b – Type MTD
Valve size	DN 50 to 800/NPS 2 to 32	
Pressure rating	PN 10 to 40/cl150 and 300	
Temperatures	(-10) -60 to 200 °C	-60 to 350 °C
Face-to-face dimensions	DIN EN 558, Series 20, 25 and 16 · API 609 cl150	
Body material	1.4408, 1.0619, 1.4571, 1.0570 A351 CF8M, A216 WCB, A240 Gr. 316L, A516 Gr. 70 etc.	
Shaft material	1.4462, 1.4542, H1150 · A182 F51, AISI 630, H1150D	
Data sheet	TB 14b_EN	

BUTTERFLY VALVES

BR 14e

Centric control butterfly valve

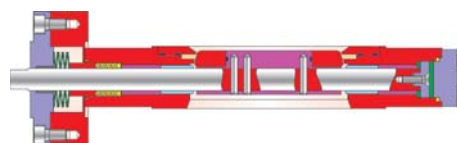
- DN 50 to 600/NPS 2 to 24
- PN 10 to 40/cl150 and 300
- Stainless steel, special material
- Wafer-type and lug-type body
- Centric design
- PTFE V-ring packing (TA-Luft)
- Maintenance-free, loaded by Belleville washers
- Leakage rate $\sim 0.5\%$ of K_{VS} coefficient



BR 14p – Type PSA

Control and shut-off butterfly valve suitable for pressure swing adsorption

- DN 80 to 400/NPS 3 to 16
- PN 10 to 40/cl150 and 300
- Short opening and closing times (<1 second)
- Wafer-type and lug-type body
- Soft seal
- PTFE V-ring packing (TA-Luft)
- Maintenance-free, loaded by Belleville washers
- Bubble-free on both sides (zero leakage)
- Special face-to-face dimensions



BR 14t

Triple eccentric butterfly valve

- DN 80 to 500/NPS 3 to 20
- PN 10 to 40/cl150 and 300
- Self-centering seat ring
- Frictionless
- Wafer-type and lug-type body
- Metal seal
- Graphite packing (TA-Luft)
- Fire-safe according to API 5th edition
- Leakage class VI and DIN EN 12266, leakage rate A (bi-directional) possible



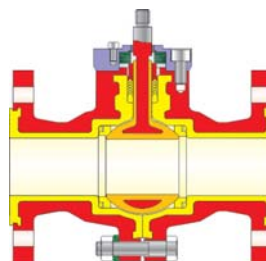
	BR 14e	BR 14p	BR 14t
Valve size	DN 50 to 600	DN 50 to 400/NPS 2 to 4	DN 80 to 500/NPS 3 to 20
Pressure rating	PN 10 (PN 16 possible)	PN 10 to 40/cl150 and 300	
Temperatures	-10 to 200°C	-20 to 180 °C	-196 to 550 °C
Face-to-face dimensions	DIN EN 558, Series 20	DIN EN 558, Series 20 and 16 · API 609 cl150 and 300	
Body material	1.4571/1.4581	1.0619/1.4408 and A216 WCB/A351 CF8M	
Data sheet	TB 14e_EN	DB 14p-01_EN	TB 14t_EN

BALL VALVES

BR 20a

PTFE-lined ball valve

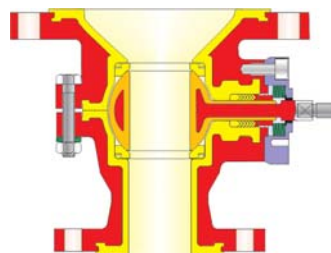
- DN 15 to 200/NPS 1 to 8
- Min. 5 mm thick PTFE lining
- Conductive PTFE lining optionally available
- Single-piece ball/shaft of stainless steel with PTFE liner
- PTFE V-ring packing
- Maintenance-free, loaded by Belleville washers



BR 21a

PTFE-lined drain ball valve

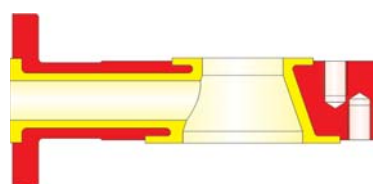
- DN 80/50 to 150/100
- Min. 5 mm thick PTFE lining
- Conductive PTFE lining optionally available
- Single-piece ball/shaft of stainless steel with PTFE liner
- PTFE V-ring packing
- Maintenance-free, loaded by Belleville washers



BR 24s

PTFE-lined spacer

- NPS 2/1 to NPS 3/3
- Min. 5 mm thick PTFE lining
- Multi-purpose connection



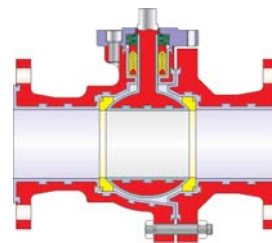
	BR 20a	BR 21a	BR 24s
Valve size	DN 15 to 200/NPS 1 to 8	DN 80/50 to 150/100	NPS 2/1, NPS 2/2, NPS 3/2, NPS 3/3
Pressure rating	PN 16/c150	PN 16	c150
Temperatures	-10 to 200 °C		-10 to 200 °C
Face-to-face dimensions	DIN EN 558, Series 1 and 3	Special face-to-face dimensions	54 mm
Body material	ENJS 1049 (0.7043)/PTFE		
Conductivity for	Ex zone 0 possible		
Data sheet	TB 20a_EN	TB 21a_EN	TB 24s_EN

BALL VALVES

BR 20b

PFA-lined ball valves

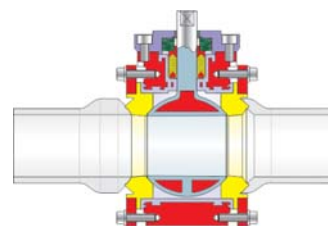
- DN 15 to 200/NPS ½ to 4
- Min. 3 mm thick PFA lining
- Conductive PFA lining optionally available
- Single-piece ball/shaft of stainless steel with PFA liner
- PTFE V-ring packing
- Maintenance-free, loaded by Belleville washers



BR 20c

PFA-lined ball valve for glass pipelines

- DN 25 and 50
- Min. 3 mm thick PFA lining
- Conductive PFA lining optionally available
- Single-piece ball/shaft of stainless steel with PFA liner
- PTFE V-ring packing
- Maintenance-free, loaded by Belleville washers
- Also available as wafer-type block ball valve



	BR 20b	BR 20c
Valve size	DN 15 to 200/NPS ½ to 4	DN 25 and 50
Pressure rating	PN 16	PN 10
Temperatures	-10 to 200 °C	
Face-to-face dimensions	DIN EN 558, Series 1	Special face-to-face dimensions
Body material	EN-JS 1049 (0.7043)/PFA	
Data sheet	TB 20b_EN	TB 20c_EN

BALL VALVES

BR 26a and 26d

Ball valves in steel, stainless steel and special steel alloys

- Maintenance-free and self-adjusting
- Two active seat rings in PTFE/TFM
- Maximum leak tightness, even with extreme pressure and temperature changes
- Long service life
- Small increase in torque as the temperature increase
- Blowout-proof shaft
- Connection according to DIN ISO 5211
- PTFE V-ring packing
- Maintenance-free, loaded by Belleville washers

Excerpt from the options catalogue

- Sets of seals made of plastic compounds
- Backup shaft sealing
- Heating jacket
- Flange types according to DIN EN 1092
- Control ball valve using calibrated seat rings
- Metal seal in the ball passage
- Fire-safe version
- Locking facility on lever

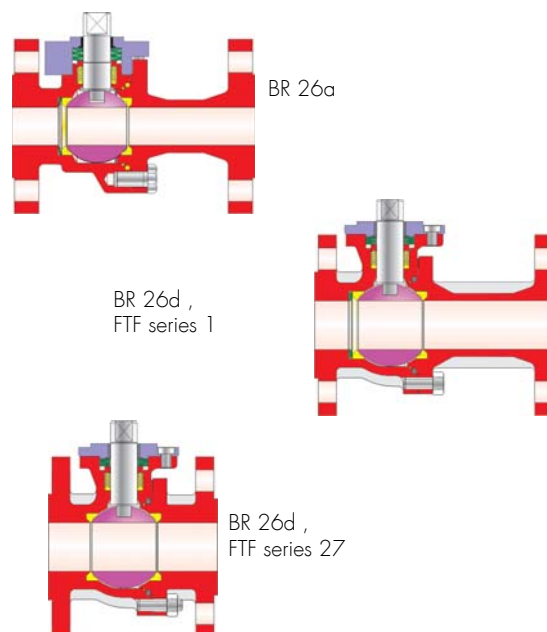
Versions

BR 26a

- DN 15 to 200/NPS ½ to 8
- Material 1.4571
- Special materials (e.g. Monel®, Hastelloy®, titanium)
- Optional special equipment and accessories (e.g. high-pressure or cryogenic version)

BR 26d

- DN 15 to 100/NPS ½ to 4
- Material 1.4408/1.4462



	BR 26a	BR 26d
Valve size	DN 15 to 200/NPS ½ to 8	DN 15 to 200/NPS ½ to 4
Pressure rating	PN 10 to 40/cl150 and 300	
Temperatures	-196 to 400 °C	-10 to 200 °C (optional -80 °C)
Face-to-face dimensions	DIN EN 558, Series 1 and 27/ASME B16.10-2000	
Body material	Special material	1.4408/A351 CF8M · 1.0619/A216 WCB
Data sheet	TB 26a_EN	TB 26d_EN

BALL VALVES

BR 26e and 26s

Ball valves in steel, stainless steel and special steel alloys

- Trunnion-mounted ball valve
- Active seat rings
- Maximum leak tightness, even with changes pressure and temperature changes
- Long service life
- Small increase in torque as the temperature increases
- Blowout-proof shaft
- Seat rings in PTFE/TFM and compounds
- Connection according to DIN ISO 5211
- PTFE V-ring packing
- Maintenance-free, loaded by Belleville washers

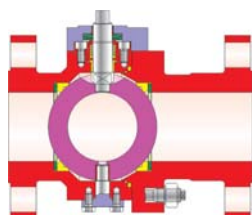
Excerpt from the options catalogue

- Backup shaft sealing
- Heating jacket
- Flange types according to DIN EN 1092
- Control ball valve using calibrated seat rings
- Metal seal in the ball passage
- Version for granulate
- High-pressure version

Versions

BR 26e

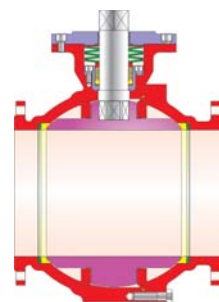
- With trunnion-mounted ball
- DN 50 to 200/NPS 2 to 8
- Material 1.0460, 1.4408, 1.4571
- Special material



BR 26e

BR 26s

- DN 25 to 800/NPS 1 to 32
- Internally supported ball (DN 80 and larger)
- Material 1.0619 and 1.4408
- Special material



BR 26s

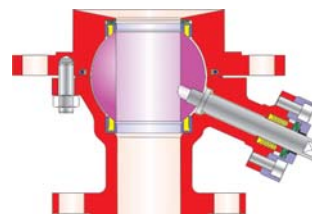
	BR 26e	BR 26s
Valve size	DN 50 to 200/NPS 2 to 8	DN 25 to 800/NPS 1 to 32
Pressure rating	PN 10 to 160/cl150 to 900	PN 10 to 160/cl150 to 900
Temperatures	-196 to 400 °C	
Face-to-face dimensions	DIN EN 558, Series 1 and 27	DIN EN 558, Series 27 and 15
Body material	1.0460, 1.4408, 1.4571	1.0619, 1.4408
Data sheet	TB 26e_EN	TB 26s_EN

BALL VALVES

BR 22a

Bottom drain ball valve made of stainless steel and special steels

- DN 50 to 300/NPS 2 to 12
- Two-piece body
- Tilted shaft
- Seat ring in PTFE/TFM
- PTFE V-ring packing
- Sealing system loaded by Belleville washers
- Optional equipment and accessories



BR 26l, 26t, 26v, 26w and 26x

Multi-port ball valves in steel, stainless steel and special steels

BR 26l

- Horizontal three-way version with L port

BR 26t

- Horizontal three-way version with T port

BR 26v

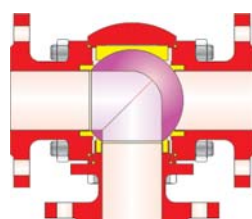
- Vertical three-way version with L port

BR 26w

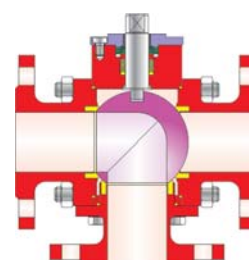
- Horizontal 5/4-way version

BR 26x

- Horizontal four-way version
- DN 15 to 200/NPS ½ to 8
- Seat ring in PTFE/TFM
- PTFE V-ring packing
- Sealing system loaded by Belleville washers
- Optional equipment and accessories
- Optional high-pressure version



BR 26l



BR 26v

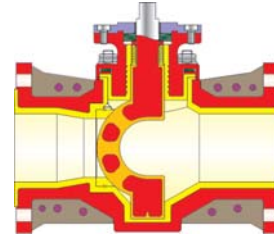
	BR 22a	BR 26l	BR 26t	BR 26v	BR 26w	BR 26x
Valve size	DN 50 to 300/NPS 2 to 12	DN 15 to 200/NPS ½ to 8				
Pressure rating	PN 10 to 40/cl150 and 300					
Temperatures	-10 to 200 °C					
Face-to-face dimensions	-	DIN EN 558, Series 1				
Body material	1.4571/1.4408	1.4408/1.4571				
Data sheet	TB 22a_EN	TB 26l_EN				

SPECIAL VALVES

BR 23e

PTFE-lined rotary plug valve

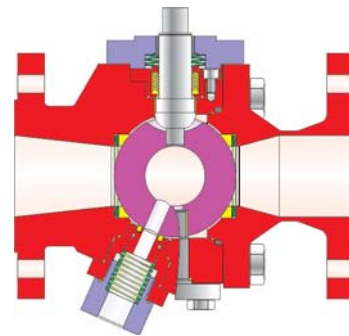
- DN 25, 50 and 80/NPS 1, 2 and 3
- 5 to 8 mm thick PTFE lining
- Single-pieced plug/shaft connection
- PTFE V-ring packing
- Maintenance-free , loaded by Belleville washers



BR 51b

Safety shut-off ball valve for block and bleed applications

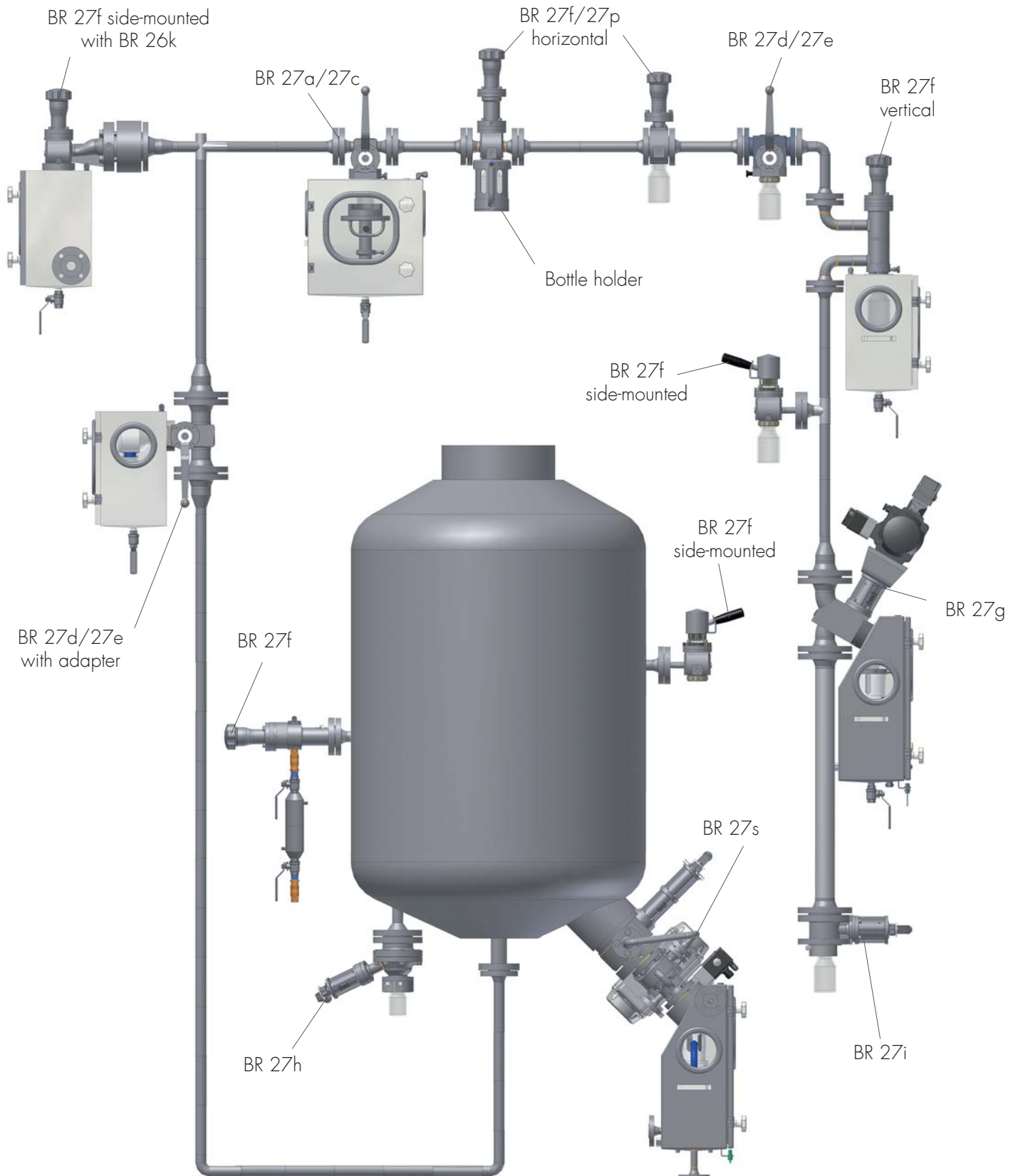
- DN 15 to 150/NPS ½ to 6
- Two-piece body
- Blowout-proof shaft
- Seat rings live-loaded on both sides
- PTFE V-ring packing
- Maintenance-free, loaded by Belleville washers



	BR 23e	BR 51b
Valve size	DN 25 to 80/NPS 1 to 3	DN 15 to 150/NPS ½ to 6
Pressure rating	PN 10/cl150	PN 10 to 40/cl150 and 300
Temperatures	-10 to 200 °C	-60 to 200 °C
Face-to-face dimensions	DIN EN 558, Series 1 and 27	DIN EN 558, Series 1
Body material	EN-JS 1049 (0.7043)	1.4571/1.4408
Data sheet	TB 23e_EN	TB 51b_EN

SAMPLING TECHNOLOGY

System solutions



BR 27 Continuous Sampling System

- Pressureless sampling of liquids
- Sampling at overpressure
- Representative sampling thanks to installation directly in the pipeline
- Defined sampling quantity
- Free of dead spaces
- Material according to customer specification

Excerpt from the options catalogue

- Special material
- Heating or cooling jacket

Supplementary equipment

- Safety cabinet
- Bottle support in safety cabinet
- Linear actuator
- Dead man's handle
- Control unit
- Monitoring with sensors
- Further on request

Version

BR 27f – IPVH

- Inline sampling valve for horizontal installation

BR 27f – IPVV

- Inline sampling valve for vertical installation

BR 27f – IPVK with or without bellows

- Inline sampling valve short design for horizontal installation

BR 27f – EPVL

- End-of-line sampling valve for lateral installation

BR 27f – IPVF

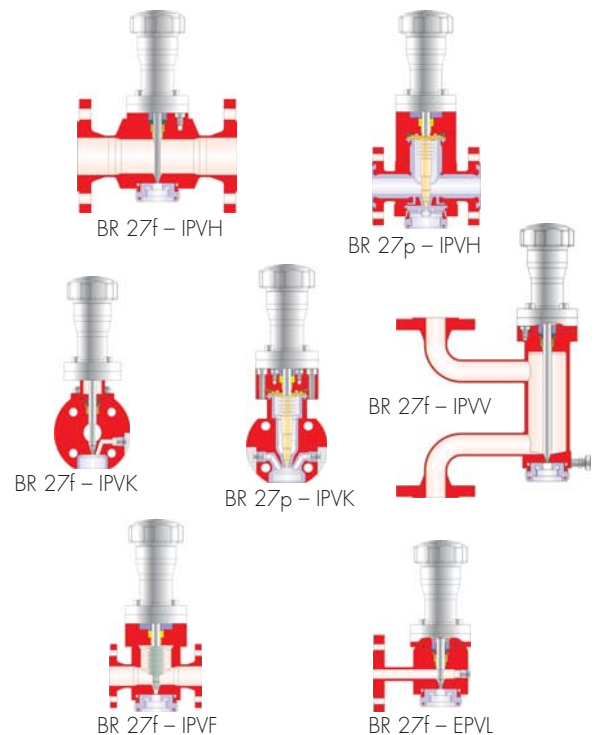
- Inline sampling valve with bellows for horizontal installation

BR 27p – IPVH with or without bellows

- Inline sampling valve for horizontal installation

BR 27p – IPVK with or without bellows

- Inline sampling valve short design for horizontal installation



	BR 27f	BR 27f	BR 27f	BR 27f	BR 27f	BR 27p	BR 27p
Design	IPVH	IPVV	IPVK	EPVL	IPVF	IPVH	IPVK
Valve size	DN 15 to 150 NPS ½ to 6	DN 25 to 100 NPS 1 to 4	DN 25 to 150 NPS 1 to 6	DN 15 to 100 NPS ½ to 4	DN 25 to 100 NPS 1 to 4	DN 25 to 100 NPS 1 to 4	DN 25 to 100 NPS 1 to 4
Pressure rating	PN 16 to 40 cl150 / 300	PN 16 to 40 cl150 / 300	PN 16 to 40 cl150 / 300	PN 16 to 40 cl150 / 300	PN 16 to 40 cl150 / 300	PN 16 cl150	PN 16 cl150
Temperatures	-10 to 200 °C					-10 to 180 °C	
Face-to-face dimensions	DIN EN 558, Series 1 ¹⁾	Special FTF	60 mm	Special FTF	DIN EN 558, Series 1	DIN EN 558, Series 1	60 mm
Data sheet	TB 27f_EN					TB 27p_EN	

¹⁾ Special face-to-face dimensions on request

SAMPLING TECHNOLOGY

BR 27 Discontinuous Sampling Valves

Sampling valves

- Defined sampling volume
- Sampling under high pressures or vacuum possible
- PTFE V-ring packing
- Maintenance-free, loaded by Belleville washers

Excerpt from the options catalogue

- Special material
- Body heating

Supplementary equipment

- Safety cabinet
- Bottle support in safety cabinet
- Pneumatic switching cabinet
- Pneumatic timer
- Further on request

Versions

BR 27a – IPHH

- Inline sampling ball valve for horizontal installation
- Body, ball and shaft made of stainless steel

BR 27d – IPHH

- Inline sampling ball valve for horizontal installation
- Body lined with PFA, ball/shaft with PTFE coating

BR 27g – IPHV

- Inline sampling ball valve for vertical installation
- Body, ball and shaft made of stainless steel

BR 27h – EPHB

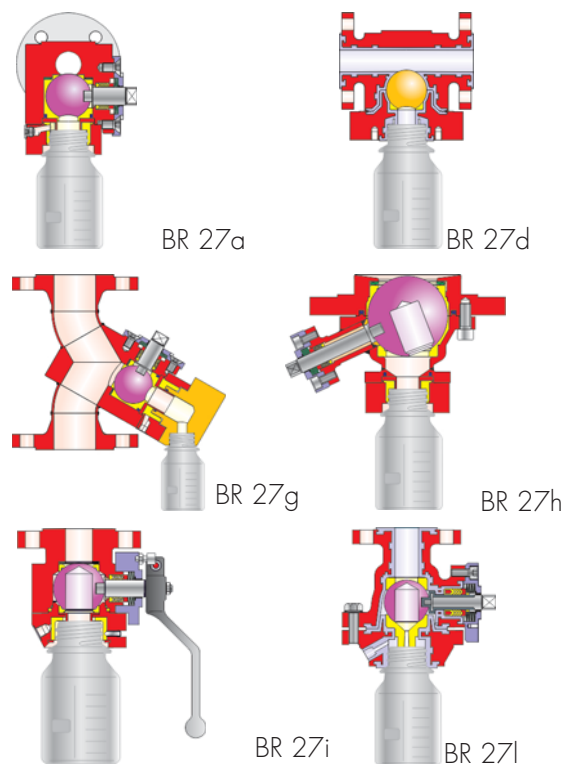
- End-of-line sampling ball valve for mounting on the tank bottom
- Body, ball and shaft made of stainless steel

BR 27i – EPHV

- End-of-line sampling ball valve for vertical installation
- Body, ball and shaft made of stainless steel

BR 27l – EPHV

- End-of-line sampling ball valve for vertical installation
- Body lined with PFA, ball and shaft made of stainless steel



	BR 27a	BR 27d	BR 27g	BR 27h	BR 27i	BR 27l
Valve size	DN 25 to 150 NPS 1 to 6	DN 25 to 100 NPS 1 to 4	DN 25 to 150 NPS 1 to 6	DN 50 to 150 NPS 2 to 6	DN 25 to 150 NPS 1 to 6	DN 25 to 100 NPS 1 to 4
Pressure rating	PN 16 and 40 cl150 and 300	PN 16 cl150	PN 16 and 40 cl150 and 300	PN 16 and 40 cl150 and 300	PN 10, 16 and 40 cl150 and 300	PN 16 cl150
Temperatures	-20 to 200 °C	-10 to 200 °C	-20 to 200 °C	-10 to 200 °C	-20 to 200 °C	-10 to 200 °C
Face-to-face dimensions	DIN EN 558, Series 1 ¹⁾	DIN EN 558, Series 1 ²⁾	230 mm ³⁾	Special face-to-face dimensions		
Data sheet	TB 27a_EN	TB 27d_EN	TB 27g_EN	TB 27h_EN	TB 27i_EN	TB 27l_EN

¹⁾ DN 80/NPS 3 and larger: Series 14 possible ²⁾ DN 80/NPS 3 and larger: Series 27 possible ³⁾ DN 50 and larger: Series 1 possible

BR 27 Continuous Sampling Valves

Sampling valves

- Variable sampling volume
- Dead man's handle
- PTFE V-ring packing
- Maintenance-free, loaded by Belleville washers

Excerpt from the options catalogue

- Special material
- Body heating

Supplementary equipment

- Safety cabinet
- Bottle support in safety cabinet
- Rotary actuator
- Control unit
- Monitoring with sensors
- Further on request

Versions

BR 27b – IPHH

- Inline sampling ball valve for horizontal installation
- Body, ball and shaft made of stainless steel

BR 27c – IPHH

- Inline sampling ball valve for horizontal installation
- Body, ball and shaft made of stainless steel

BR 27e – IPHH

- Inline sampling ball valve for horizontal installation
- Body lined with PFA, ball/shaft with PTFE coating

BR 27k – EPHV

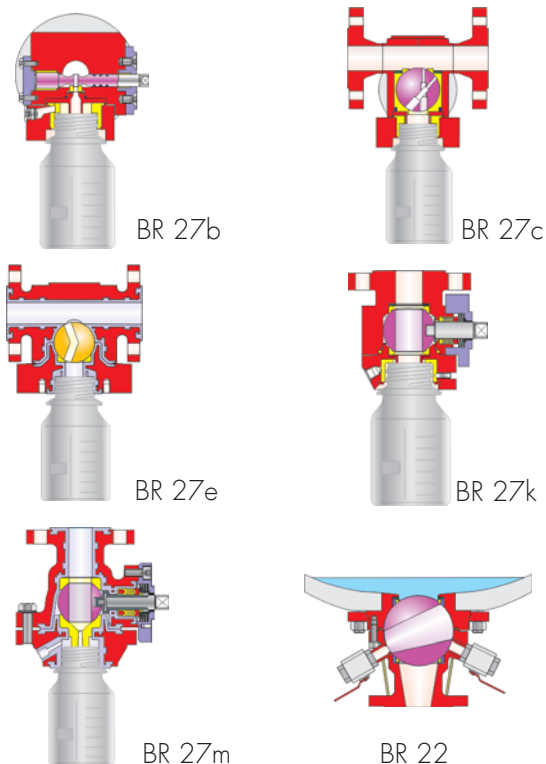
- End-of-line sampling ball valve for vertical installation
- Body, ball and shaft made of stainless steel

BR 27m – EPHV

- End-of-line sampling ball valve for vertical installation
- Body lined with PFA, ball and shaft made of stainless steel

BR 22 – EBHP

- End-of-line bottom drain ball valve as a sampling device
- Body, ball and shaft made of stainless steel



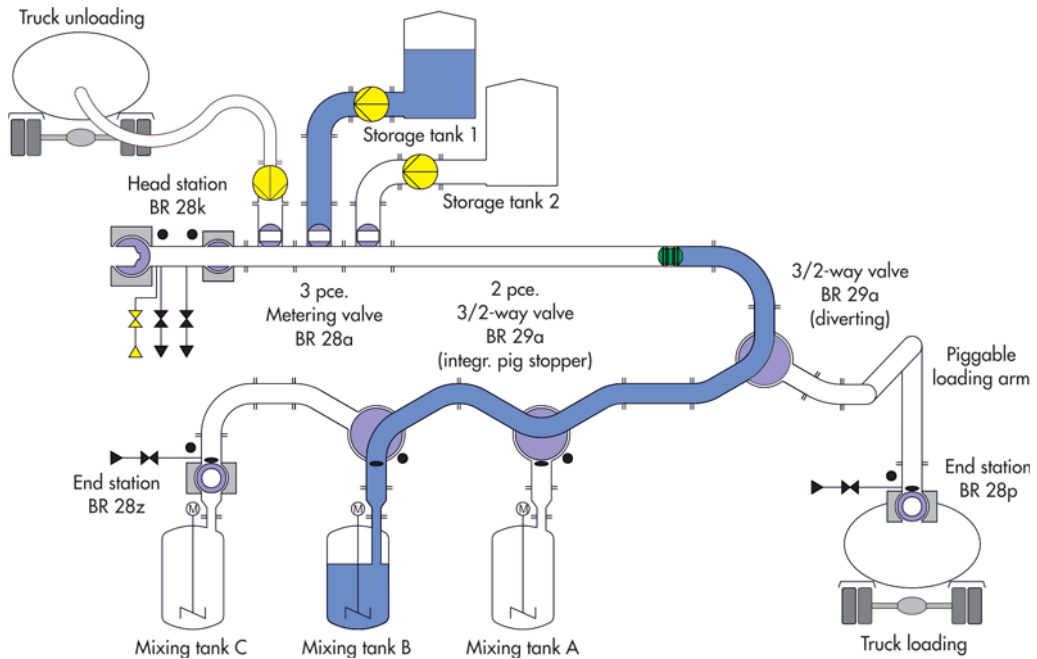
	BR 27b	BR 27c	BR 27e	BR 27k	BR 27m	BR 22
Valve size	DN 25 to 100 NPS 1 to 4	DN 25 to 150 NPS 1 to 6	DN 25 to 100 NPS 1 to 4	DN 25 to 150 NPS 1 to 6	DN 25 to 100 NPS 1 to 4	DN 50 to 150 NPS 2 to 6
Pressure rating	PN 40 cl300	PN 16 and 40 cl150 and 300	PN 16 cl150	PN 16/40 cl150 and 300	PN 16 cl150	PN 16/40 cl150 and 300
Temperatures	-10 to 200 °C	-20 to 200 °C	-10 to 200 °C	-20 to 200 °C	-10 to 200 °C	-10 to 200 °C
Face-to-face dimensions	DIN EN 558, Series 1	DIN EN 558, Series 1 ¹⁾	DIN EN 558, Series 1 ²⁾	Special face-to-face dimensions		
Data sheet	TB 27b_EN	TB 27a_EN	TB 27d_EN	TB 27i_EN	TB 27j_EN	TB 27h_EN

¹⁾ DN 80/NPS 3 and larger: Series 14 possible ²⁾ DN 80/NPS 3 and larger: Series 27 possible

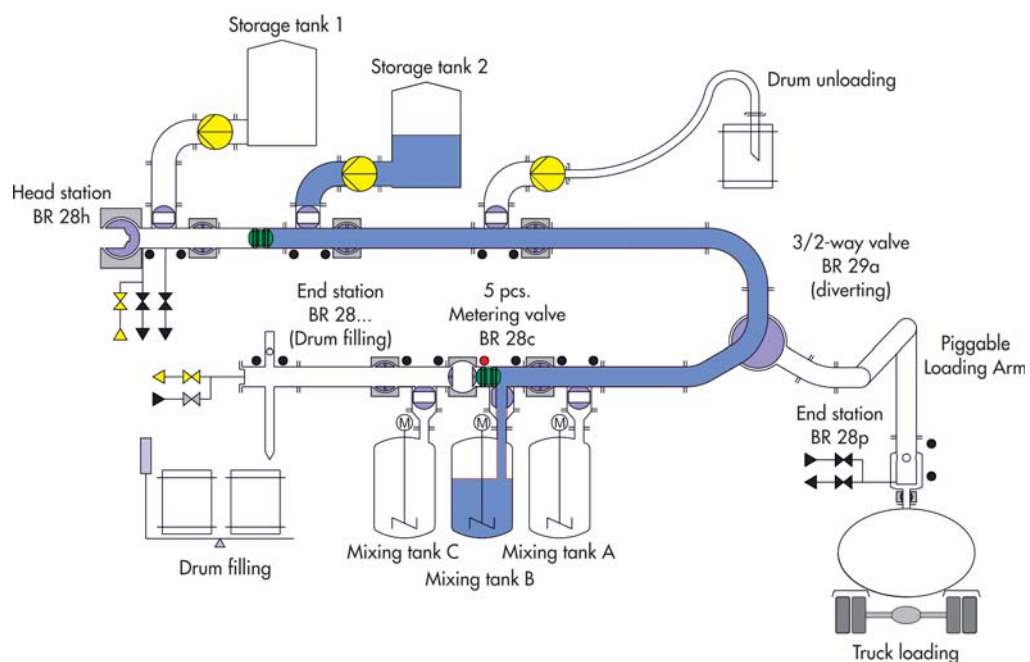
PIGGING TECHNOLOGY

Example: plant construction

Single pig system:



Double pig system:



Pipe dimensions according to DIN 2430

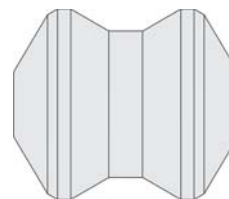
Valve size	Pressure rating	Inside diameter
DN*	PN	ID
DN 50	PN 25 and 40	54.5 mm
DN 80	PN 25 and 40	82.5 mm
DN 100	PN 25 and 40	107.1 mm
DN 125	PN 25 and 40	131.7 mm
DN 150	PN 25 and 40	159.3 mm
DN 200	PN 25 and 40	206.5 mm

* Other dimensions on request

BR 28 Pigs

BR 28m – Pig TWIN I

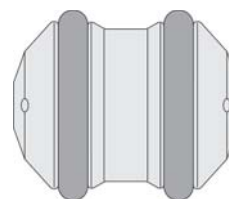
- Solid elastomeric pig
- Cold cast
- Solid pig made of VMQ or PU



BR 28m
Pig TWIN I & II

BR 28m – Pig TWIN II

- Solid elastomeric pig
- Vulcanized
- Solid pig made of VMQ, EPDM, FKM etc.



BR 28m
Pig TWIN III

BR 28m – Pig TWIN III

- Lip pig
- High resistance
- Lip pig with replaceable lips made of HDPE, TFM, VMQ usw.

	BR 28m – Pig TWIN I	BR 28m – Pig TWIN II	BR 28m – Pig TWIN III
Valve size	DN 50 to 200/NPS 2 to 8		
Pressure rating	–		
Face-to-face dimensions	–10 to 200 °C		
Data sheet	TB 28m_EN		

BR 28 and 29 Piggable Valves

Pigging valves

- DN 50 to 200/NPS 2 to 8
- Pipe inside diameter according to DIN 2430
- Active seat rings in low-maintenance design
- Maximum leak tightness, even with extreme pressure and temperature changes
- Long service life
- Small increase in torque as the temperature increases
- Blowout-proof shaft
- PTFE/TFM seals
- PTFE V-ring packing
- Maintenance-free, loaded by Belleville washers
- Connection according to DIN ISO 5211

Excerpt from the options catalogue

- Pig signaller strap in automatic systems to mount magnetic-inductive sensors
- Pig sensing device for manual detection
- Different inside diameters possible on request
- Contamination safeguarding for automatic leakage detection at the ball valve
- Valves also available in a low dead-space design

Versions

BR 28a

- Cavity-free piggable metering valve

BR 28e

- Docking pig ball valve

BR 28t

- Piggable three-way ball valve

BR 28u

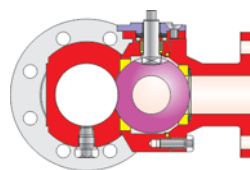
- Cavity-free piggable segmented ball valve

BR 28y

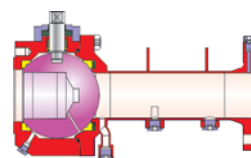
- Piggable ball valve in flanged and block version

BR 28z

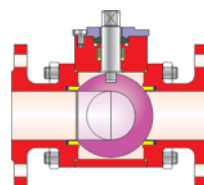
- Cavity-free piggable end station



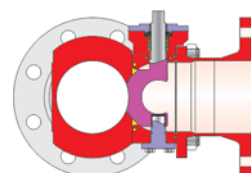
BR 28a



BR 28e



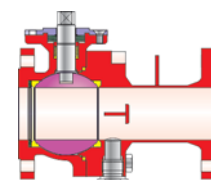
BR 28t



BR 28u



BR 28y



BR 28z

	BR 28a	BR 28e	BR 28t	BR 28u	BR 28y	BR 28z
Valve size	DN 50 to 200/NPS 2 to 8					
Pressure rating	PN 25 and 40/cl150 and 300					
Temperatures	-10 to 200 °C (>200 °C on request)					
Face-to-face dimensions	Special face-to-face dimensions					
Data sheet	TB 28a_EN	TB 28e_EN	TB 28t_EN	TB 28u_EN	TB 28y_EN	TB 28z_EN

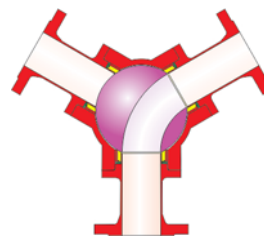
BR 28 and 29 Piggable Valves

BR 29a

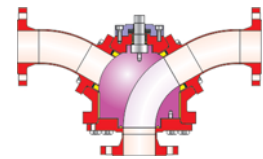
- 3/2-way diverting valve with large bending radius
- 3/3-way diverting valve with step gear

BR 29b

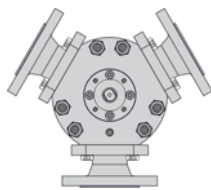
- Multi-way diverting valve
- With a large bending radius as a product distributor
- Version as:
 - 5/4-way diverting valve
 - 7/6-way diverting valve
 - 9/8-way diverting valve



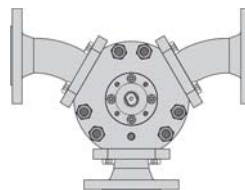
BR 29a



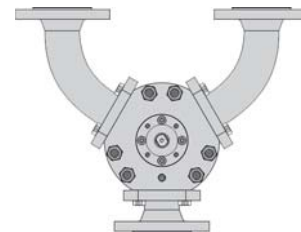
BR 29b



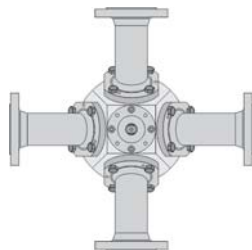
BR 29a
120° star pattern



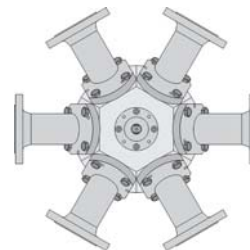
BR 29a
Swallow pattern



BR 29a
"Hagar" pattern



BR 29b
5/4-way diverting valve



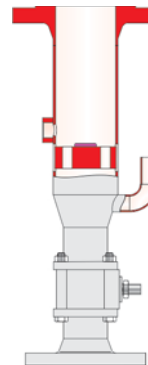
BR 29b
7/6-way diverting valve

	BR 29a	BR 29b
Valve size	DN 50 to 200/NPS 2 to 8	
Pressure rating	PN 25 and 40/cl150 and 300	
Temperatures	-10 to 200 °C (>200 °C on request)	
Face-to-face dimensions	Special face-to-face dimensions	
Data sheet	TB 29a_EN	TB 29b_EN

BR 28 and 29 Piggable Valves

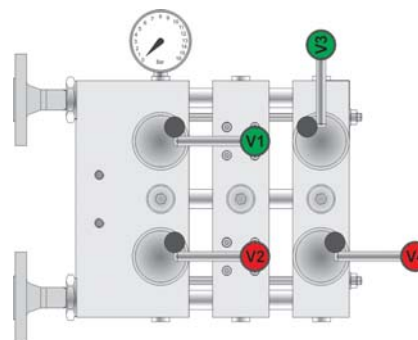
BR 28p Piggable Loading System

- Pig end station for truck loading
- Version as single or double pig systems
- Options:
 - Top or bottom filling
 - Overfill protection
 - Heating or insulation



BR 28s Control Panel

- In a head station for pig change and automatic pig drive
- In an end station for automatic pig drive
- Suitable for single or double pig system
- Gas or liquid propellant
- Right and left design



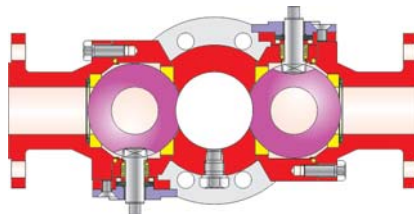
	BR 28p	BR 28s
Valve size	DN 50 to 100	DN 15 and 20/NPS ½ and ¾
Pressure rating	PN 25 and 40	PN 25/d1150
Temperatures	-10 to 200 °C	-10 to 200 °C
Data sheet	TB 28p_EN	TB 28s_EN

Combinations

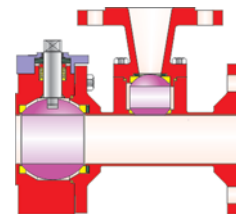
BR 28b Metering Valve

Combination of:

- One piggable double T-piece
- Two BR 28a Metering Valves



BR 28b



BR 28c

BR 28c Metering Valve

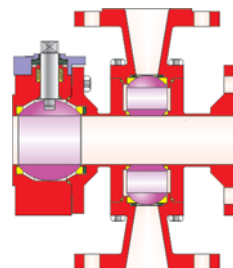
Combination of:

- One piggable T-piece
- One BR 28a Metering Valve
- One piggable BR 28y Ball Valve

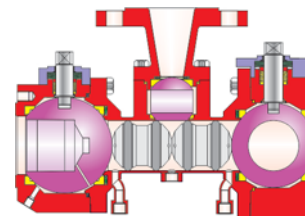
BR 28d Metering Valve

Combination of:

- One piggable double T-piece
- Two BR 28a Metering Valves
- One piggable BR 28y Ball Valve



BR 28d



BR 28h

BR 28h Head Station

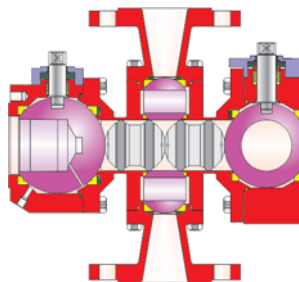
Combination of:

- One piggable T-piece
- One BR 28a Metering valve
- One BR 28e Head Station
- One piggable BR 28y Ball Valve

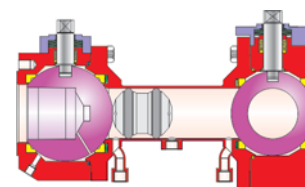
BR 28i Head Station

Combination of:

- One piggable double T-piece
- Two BR 28a Metering Valves
- One BR 28e Head Station
- One piggable BR 28y Ball Valve



BR 28i



BR 28k

BR 28k Head Station

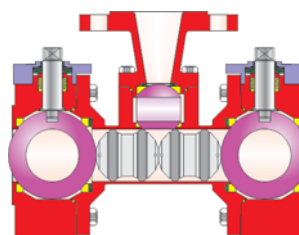
Combination of:

- One piggable pipe piece
- One BR 28e Head Station
- One piggable BR 28y Ball Valve

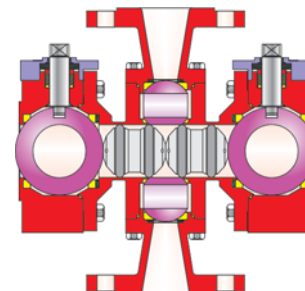
BR 28n Head Station

Combination of:

- One piggable T-piece
- One BR 28a Metering Valve
- Two piggable BR 28y Ball Valves



BR 28n



BR 28o

BR 28o Head Station

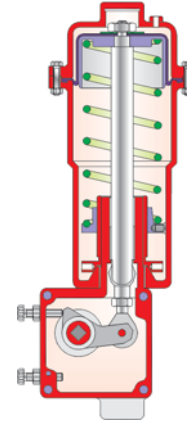
Combination of:

- One piggable double T-piece
- Two BR 28a Metering Valves
- Two piggable BR 28y Ball Valves

BR 30a

Pneumatic multi-turn diaphragm actuator

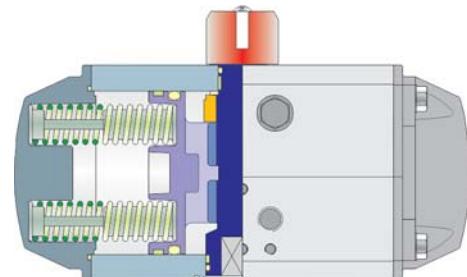
- Seven actuator sizes
- Operating torque up to 5619 Nm
- Housing made of spheroidal graphite iron
- Rolling diaphragm of NDR
- Adjustable end stops
- Outstanding control properties
- Connections according to
 - DIN EN ISO 5211
 - VDI/VDE 3845
- Angle of rotation $90^\circ \pm 3^\circ$
- Long stroke



BR 31a

Pneumatic quarter-turn actuator

- 16 actuator sizes
- Suitable for on-off and throttling service
- Housing with Alodur® coating
- Adjustable end stops
- Torques up to 10000 Nm
- Connections according to
 - DIN EN ISO 5211
 - VDI/VDE 3845
- Improved transmission of force and running properties by means of involute tothing
- Angle of rotation $90^\circ (-5^\circ \text{ to } +15^\circ, 175 \text{ to } 95)$
- Actuators with extended angle of rotation range 120° and 180°
- Dosing actuator with adjustable mid-position
- Three-step actuator
- Actuator with hydraulic damping
- Actuator with hydraulic adjustment of rotating speed



	BR 30a	BR 31a
Operating torque	Up to 5619 Nm	Up to >10000 Nm
Ambient temperature	-35 to 90 °C	-40 to 80 °C
Material	EN-JS 1049 (0.7043)	Aluminium with Alodur® coating
Data sheet	TB 30a_EN	TB 31a_EN



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International SAMSON AG sales network

SAMSON AT A GLANCE

STAFF

- Worldwide 4,000
- Europe 3,300
- Asia 500
- Americas 200
- Frankfurt am Main, Germany 1,600

MARKETS

- Chemicals and petrochemicals
- Power and energy
- District heating and cooling, building automation
- General industry
- Industrial gases
- Food and beverages
- Metallurgy and mining
- Oil and gas
- Pharmaceuticals and biotechnology
- Marine equipment
- Water and wastewater
- Pulp and paper

PRODUCTS

- Valves
- Self-operated regulators
- Actuators
- Valve accessories
- Signal converters
- Controllers and automation systems
- Sensors and thermostats
- Digital solutions

SALES SITES

- More than 50 subsidiaries in over 40 countries
- More than 200 representatives

PRODUCTION SITES

- SAMSON Germany, Frankfurt, established 1916
Total plot and production area: 150,000 m²
- SAMSON France, Lyon, established 1962
Total plot and production area: 23,400 m²
- SAMSON Turkey, Istanbul established 1984
Total plot and production area: 11,053 m²
- SAMSON USA, Baytown, TX, established 1992
Total plot and production area: 9,200 m²
- SAMSON China, Beijing, established 1998
Total plot and production area: 10,138 m²
- SAMSON India, Pune district, established 1999
Total plot and production area: 18,000 m²
- SAMSON Russia, Rostov-on-Don, established 2015
Total plot and production area: 5,000 m²
- SAMSON AIR TORQUE, Bergamo, Italy
Total plot and production area: 27,684 m²
- SAMSON CERA SYSTEM, Hermsdorf, Germany
Total plot and production area: 14,700 m²
- SAMSON KT-ELEKTRONIK, Berlin, Germany
Total plot and production area: 1,060 m²
- SAMSON LEUSCH, Neuss, Germany
Total plot and production area: 18,400 m²
- SAMSON PFEIFFER, Kempen, Germany
Total plot and production area: 35,400 m²
- SAMSON RINGO, Zaragoza, Spain
Total plot and production area: 18,270 m²
- SAMSON SED, Bad Rappenau, Germany
Total plot and production area: 10,370 m²
- SAMSON STARLINE, Bergamo, Italy
Total plot and production area: 26,409 m²
- SAMSON VDH PRODUCTS, Netherlands
- SAMSON VETEC, Speyer, Germany
Total plot and production area: 27,090 m²



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