

SAMSON VETEC.



VETEC Rotary Plug Valves & Actuators Main Catalog







VETEC: Reliable · Flexible · Innovative

Tradition & Perfection



and fairness is key to our

business relations.

Tradition and perfection for safe, durable control valves

At VETEC, our expertise is founded on tradition and experience. We have accumulated in-depth know-how over many years and in combination with our worldwide service and sales network, we are your ideal partner.

VETEC stands for German engineering and control valves tailor-made for your specific application. The result are first-rate valves that meet strictest requirements.

First-rate quality

The prime quality our products and brand are known for is based on the hard work of our highly skilled staff: every day, they do their best to satisfy your needs. Every control valve that leaves our plant is manufactured to meet the specific requirements of your process and to **function reliably** over many years.

Rotary plug valves by VETEC feature **high flow capacities** and an **excellent control accuracy** at an enormous resolution. Typically, their K_{vs} and C_v coefficients are two to three times **higher than those of comparable valves.** Their rangeability of 200:1 also exceeds that of conventional control valves and similar products.



Focus on customers and process requirements

Often, the easiest aspects are the most difficult to implement. At VETEC, our focus is on what our customers need for their process. Our innovations are not made for the sake of innovation; our innovations are the result of extensive cooperation and in-depth communication with our customers.

Our goal is to make VETEC products rugged tools for the safe handling of different industrial processes.

Sustainability

As a modern industrial company, VETEC stands for **durable**, **sustainable values**. We use our **technical expertise** to achieve the highest level of safety, **reliability and durability** with our control valves. They are built **to meet highest expectations** and withstand **extreme ambient conditions**, such as temperature fluctuations, vibrations or offshore service. Every control valve that we make is the result of decade-long experience, continuous development and compliance with the strictest quality standards

Valves

Standard Actuators

Special design features (optional)

- Low-emissions packing according to TA Luft and ISO 15848 (equivalent to bellows seal)
- Free of dead spaces
- Comprehensive sealing of all bearing bushings
- Stuffing box
- Extension for high and cryogenic temperatures
- Heating jacket
- Protective sleeves of ceramics and carbide metal
- Flushing connections
- Low-noise and anti-cavitation components



- Particularly high flow capacity, free passage
- Rugged, compact design
- Rangeability up to 200:1
- Blow-out-proof shaft
- Durability and maximum resistance to wear
- Excellent control behavior thanks to double-eccentric design
- Customized configurations
- Ideal to control the flow of gases, steam, liquids and solids
- Can be used to handle corrosive, sticky, highly viscous and dirt-carrying media

Design features

- Rugged, compact design
- Variable number of springs
- Optimized spring ranges
- NAMUR interface for Types R, AT, BR 31a
- Modular design: Optionally with manual gear, handwheel, mechanical travel stops or accessories
- Optionally with quick-closing function







Air Torque Version A

Pneumatic double-piston rotary actuator, single or double acting



Pfeiffer Type BR 31a Pneumatic

single or double acting



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Properties

- Precise control, particularly using diaphragm actuators
- High positioning force (torques)
- Fast stroking speed
- Can be used for temperatures from -40 to +80 °C/-40 to +176°F
- Suitable for use in explosive atmospheres







Pneumatic rotary diaphragm actuator

double-piston rotary actuator,

Possible Fields of Application

Flow Characteristics

The wide variety of versions makes VETEC's **rotary plug valves** suitable for many applications. The Types 82.7, 82.7-01, 72.3, 73.7 and 73.3 Valves can be used in **throttling or on/off service** in many fields of the process industry.

Chemicals and Petrochemicals

- Acrylic acid
- Ethylene oxide
- Butadiene
- Fluorine
- Bitumen
- Molten plastic
- Media containing solids
- Ammonia

Industrial Gases

- Gaseous oxygen
- Phosgene
- Chlorine
- Cryogenic gases

Water and Wastewater

- Water treatment
- Desalination
- Process cooling systems
- Steam

Metallurgy and Mining

 Ore extraction (abrasive and corrosive slurries)

- Oil and Gas (midstream and downstream)
- Sour gas
- LNG
- Distribution and supply processes
- Media containing solids
- Crude oil, naphtha, HCO

Special Fields of Application

- Control valves with fail-safe action
- DVGW certifi cation
- Fire-safe certifi cation

Building Automation

- District heating
- District cooling

Pulp and Paper

Fibrous media

The process medium can flow through the valves without being deflected. VETEC valves come without shaft guide in the plug, which enables them to achieve a **free passage with very high Kys/Cy coefficients**. Reduced seat trims allow the valves to be perfectly tailored to the process requirements.



The natural design characteristic can be modified to achieve a linear or equal percentage (logarithmic) characteristic using a positioner.





Principle of Operation

Fail-Safe Action

The plug is lifted off the seat by the slightest rotary motion. There is no transition from static to dynamic friction between the seat and plug. The valves are not susceptible to vibration thanks to their rugged double guide bushing.

Both directions of flow are possible:

- ▶ FTO = flow-to-open (medium opens)
- ► FTC = flow-to-close (medium closes)



Used in combination with single-acting Type R, AT, M, BR 31a and other actuators, the valve has two fail-safe positions that become effective when the supply air fails:

- FC = fail-close: the valve is closed when the supply air fails
- FO = fail-open: the valve is opened when the supply air fails





closed position

valve opens

open position

Technical Data of Valves



Typ 82.7 & **82.7-01** version 2017 short design (wafer type)



	DIN	ANSI	
Valve size	DN 25 to 300	NPS 1 to 12	
Pressure rating	PN 10 to 40	CL 150, 300	
Face-to-face dimensions DIN EN 558, table 2	Series 36	36	

2 Typ 72.3 long design



	DIN	ANSI	
alve size DN 25 to 600		NPS 1 to 24	
ressure rating	PN 10 to 40	CL 150, 300	
ace-to-face dimensions NN EN 558, table 2	DN 25 to 250, Series 1 DN 300 to 600, Series 15	NPS 1 to 10, CL 150, Series 37 NPS 1 to 10, CL 300, Series 38 NPS 12 - 24, Series 15	

3 Typ 73.7 short design high-pressure version



4 **Typ 73.3** long design high-pressure version



DIN	ANSI
DN 25 to 600	NPS 1 to 24
PN 63 to 160	CL 600, 900
DN 25, Series 2 DN 40 bis 600, Series 15	NPS 1, CL 600, Series 39 NPS 1, CL 900, Series 54 NPS 1½ bis 24, Series 15

DIN	ANSI*
DN 25 to 250	_
PN 63 to 160	_
DN 25 to 250, Series 2	

Technical Data of **Non-VETEC** Actuators

Technical Data of **VETEC** Actuators



AIR TORQUE version A



Pfeiffer

Function	Pneumatic rotary actuator	
Туре	Double-piston design (closes counterclockwise)	
Single acting	SC, SO	
Double acting	DL	
Sizes	60 to 10,000	

60 to 10,000

2 PFEIFFER Type BR 31a



Function

Single acting Double acting

Туре

Sizes

Pneumatic rotary actuator
Double-piston design (closes counterclockwise)
SRP
DAP





Function
Туре
Standard
With reinforced springs

3 Type MZ



Function
Туре
Standard
With reinforced springs

Single-acting pneumatic rotary actuator
Rolling diaphragm
R110, R150, R200, R250
R110v, R150v, R200v, R250v, R250vv

Single-acting pneumatic rotary actuator Diaphragm MD450, MD700 MD450v, MD700v

Single-acting pneumatic rotary actuator
Diaphragm
MZ450, MZ700
MZ450v, MZ700v

Technical Data & Materials

Version	DIN	ANSI
Flange version ¹	DIN EN 1092-1	ASME B16.5
Valve seat	Metal or soft seal	
Opening angle	75 °	
Closing direction	Counterclockwise	
Direction of flow	Both directions: flow-to-close (FTC)/flow-to-open (FTO)	
Fail-safe action	Fail-close (FC)/fail-open (FO)	
Rangeability	Up to 200:1	
Characteristic	Natural characteristic (linear or equal percentage using positioner)	
Lashuna wata	IEC 60534-1	ANSI/FCI 70-2
сеакаде гате	Metal seal: Class IV, soft seal: Class VI	
Temperature range ²	-196 to +500 °C/-321 to +932°F	
Actuator	Pneumatic, electric, hydraulic, manual gear	
Version according to	Directive 2014/68/EU, AD 2000 sheets, Directive 2006/42/EC	
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¹ Other versions on request

² Different designs

Materials

VETEC manufactures rotary plug valves of almost all metals. In addition to the standard materials, such as cast steel and cast stainless steel, we offer versions made of steels and stainless steels for low- and high-temperature service as well as of exotic alloys.

DIN-EN (WN)	ASME equivalent	Description	Temperature range [°C/°F]
1.0619	A216 WCC (-29 to +400 °C/-20,2 to +752 °F)	Cast steel	-10 to +400 °C/-14 to +752 °F
1.4408	A351 CF8M	Cast stainless steel	-196 to +500 °C/-320,8 to +932 °F

Special materials

- Duplex
- Superduplex
- Monel[®]
- Hastelloy[®]

- Titanium
- Zirconium
- Bronze alloys
- Others on request

Valve T	ype	82.7 /	82.7-01		72.3			73.7		73	3.3
Pressur Rating	e	PT-101040	C1 50 300	R4101040	C1750 PE	C1-300 PEF	R163676	C1-000 pt	C1-900 PEF	R16310160	C1 60 00
DN	NPS	Face-to-fac	ce dimensior	ns [mm]							
25	1	102	102	160	184	197	230	210	254	230	—
40	11/2	114	114	200	222	235	240	240	240	260	—
50	2	124	124	230	254	267	250	250	250	300	—
80	3	165	165	310	298	317	280	280	280	380	—
100	4	194	194	350	352	368	300	300	300	430	—
150	6	229	229	480	451	473	350	350	350	550	—
200	8	243	243	600	543	568	400	400	400	650	—
250	10	297	297	730	673	708	450	450	450	775	—
300	12	338	338	500	500	500	500	500	500	—	—
400	16	-	—	600	600	600	600	600	600	—	—
500	20	-	—	700	700	700	700	700	700	—	—
600	24	_	_	800	800	800	800	800	800	_	_

On request RTJ Flange version, change in face-to-face dimensions

Valve T	ype	82.7 /	82.7-01		72.3			73.7		7:	3.3
Pressur Rating	e	PH101040	C1 50 300	PT-101040	C1750Rf	C1-300 pt	R163676160	C1-600 Pt	C1-900 Rt	R16310160	C1 60 900
DN	NPS	Tables									
25	1	36	36	1	37	38	2	39	54	2	—
40	11/2	36	36	1	37	38	15	15	15	2	—
50	2	36	36	1	37	38	15	15	15	2	_
80	3	36	36	1	37	38	15	15	15	2	_
100	4	36	36	1	37	38	15	15	15	2	_
150	6	36	36	1	37	38	15	15	15	2	_
200	8	36	36	1	37	38	15	15	15	2	_
250	10	36	36	1	37	38	15	15	15	2	_
300	12	36	36	15	15	15	15	15	15	_	_
400	16	-	_	15	15	15	15	15	15	—	_
500	20	-	_	15	15	15	15	15	15	_	_
600	24	_	_	15	15	15	15	15	15	—	

Face-to-Face Dimensions DIN EN 558, Table 2

K_{vs}-Value: Valve Type **72.3**, **73.7**, **73.3**

1a Metal seat — flow to close (FTC)

DN [mr	DN [mm]		40	50	80	100	150	200	250	300
NPS [in	ch]	1	11/2	2	3	4	6	8	10	12
Seat Fa	ctors									
100 %	K _{vs} /C _v	16/18	36/42	70/81	210/243	340/393	660/763	810/936	1300/1503	2100/2428
100 /0	Seat Ø [mm]	18	26	36	60	76	105	135	170	210
40 %	K _{vs} /C _v	12/14	22/25	43/50	135/156	200/231	320/370	410/474	820/948	900/1040
00 /0	Seat Ø [mm]	16	21.5	29.5	50	60	86	106	146	163
40.9/	K _{vs} /C _v	10/12	16/18	31/36	95/110	120/139	185/214	250/289	540/624	570/659
40 %	Seat Ø [mm]	14	18.5	25.5	44	53	73	88	126	133
35 %	K _{vs} /C _v	4/4,6	12/14	19/22	56/65	90/104	125/145	160/185	320/370	410/474
23 %	Seat Ø [mm]	10	16	21	37	45	62	73	102	116

Other seat factors on request.

2a Metal seat – flow to open (FTO)

DN [mr	n]	25	40	50	80	100	150	200	250	300
NPS [in	ch]	1	11/2	2	3	4	6	8	10	12
Seat Fa	ctors									
100 %	K _{vs} /C _v	16/18	36/42	70/81	220/254	360/416	720/832	1100/1272	1950/2254	2700/3121
100 /₀	Seat Ø [mm]	18	26	36	60	76	105	135	170	210
20 0/	K _{vs} /C _v	12/14	22/25	43/50	145/168	210/243	430/497	630/728	1230/1422	1500/1734
00 /0	Seat Ø [mm]	16	21.5	29.5	50	60	86	106	146	163
10 0/	K _{vs} /C _v	10/12	16/18	31/36	105/121	150/173	275/318	390/451	850/983	900/1040
40 ⁄o	Seat Ø [mm]	14	18.5	25.5	44	53	73	88	126	133
35 0/	K _{vs} /C _v	4/4,6	12/14	19/22	70/81	100/116	185/214	245/283	500/578	640/740
25 /0	Seat Ø [mm]	10	16	21	37	45	62	73	102	116

Other seat factors on request.

3a Soft seat – flow to close (FTC)

DN [mr	n]	25	40	50	80	100	150	200	250	300
NPS [in	ch]	1	11/2	2	3	4	6	8	10	12
Seat Fa	ctors									
100 %	K _{vs} /C _v	12/14	36/42	68/79	180/208	290/335	535/618	730/844	1220/1410	2000/2312
100 /0	Seat Ø [mm]	16	26	35	54	70	98	128	160	210
40 %	K _{vs} /C _v	11/13	22/25	43/50	135/156	200/231	320/370	410/474	820/948	900/1040
00 /0	Seat Ø [mm]	15	21.5	29.5	50	60	86	106	146	163
10 %	K _{vs} /C _v	10/12	16/18	31/36	105/121	120/139	185/214	250/289	540/624	570/659
40 /₀	Seat Ø [mm]	14	18.5	25.5	46	53	73	88	126	133
35 %	K _{vs} /C _v	4/4,6	12/14	19/22	56/65	90/104	125/145	160/185	320/370	410/474
25 %	Seat Ø [mm]	10	16	21	37	45	62	73	102	116

Other seat factors on request.

FTC = Flow-to-close (medium closes)

1b Metal seat – flow to close (FTC) DN [mm] 25 40 50 80 100 150 200 NPS [inch] 1 11/2 2 3 4 6 8 Seat Factors K_{vs}/C_v 100 % Seat Ø [mm] K_{vs}/C_{v} 60 % Seat Ø [mm Valve size 25 to 300 according table 1a K_{vs}/C_{v} 40 % Seat Ø [mm] K_{vs}/C_{v} 25 % Seat Ø [mm

Other seat factors on request. Valve Type 73.3 only to DN 250.



Other seat factors on request. Valve Type 73.3 only to DN 250.

3b Soft seat — flow to close (FTC)

DN [mi	n]	25	40	50	80	100	150	200	250	300	400	500	600
NPS [in	ich]	1	I 11/2 2 3 4		6	8	10	12	16	20	24		
Seat Fa	ictors												
100 %	K _{vs} /C _v										2700/3121	4800/5549	7680/8879
100 /0	Seat Ø [mm]										290	350	420
20 %	K _{vs} /C _v										1800/2081	2700/3121	4030/4659
00 /0	Seat Ø [mm]				Valve	size 25	5 to 30	0			225	271	330
10 %	K _{vs} /C _v				acco	rding to	able 3 0	2			1120/1295	1600/1850	2530/2925
40 %	Seat Ø [mm]										184	221	275
35 0/	K _{vs} /C _v						860/994	870/1006	1410/1630				
23 %	Seat Ø [mm]										160	175	225

Other seat factors on request. Valve Type 73.3 only to DN 250.

250	300	400	500	600
10	12	16	20	24
		3400/3931	4800/5549	7680/8879
		290	350	420
		1800/2081	2700/3121	4030/4659
		225	271	330
		1120/1295	1600/1850	2530/2925
		184	221	275
		860/994	870/1006	1410/1630
		160	175	225

250	300	400	500	600
10	12	16	20	24
		4700/5434	6700/7746	9700/11214
		290	350	420
		2700/3121	3800/4393	5800/6705
		225	271	330
		1600/1850	2300/2659	3900/4509
		184	221	275
		1100/1272	1250/1445	2400/2775
		160	175	225

Valves Type 82.7, 82.7-01, 72.3 with R-Actuator

1 Differential pressures – FC/FTO and FO/FTC

D A ale	R-Actuator	Face-to-Fac	e Dimensions	;						
K-ACTU	ator	R110	R110v	R150	R150v	R200	R200v	R250	R250v	R250vv
Spring	Ranges	0.4-1.2	1.16-2.76	0.4-1.2	0.92-2.76	0.4-1.2	1,25-2.65	0.4-1.2	1.3-2.4	1.7-3.3
DN	NPS	Differential	pressures Δp	[bar]						
25	1	40								
40	11/2	16	40	40						
50	2	8	40	40	40					
80	3		14	14	38	30	40	40		
100	4		6	6	20	16	40	28		
150	6				8	6	28	10	40	40
200	8				4	3	14	6	25	30
250	10						6	3	12	16
300	12						4		6	8

Values for standard packing and low-emissions TA-Luft packing. Values do not apply to double stuffing box. Higher differential pressures on request.

2 Differential pressures – FC/FTC and FO/FTO at supply pressure 4 [barg]

R-Actuator		Face-to-Face Dimensions											
K-ACTU	ator	R110	R110v	R150	R150v	R200	R200v	R250	R250v	R250vv			
Spring	Ranges	0.4-1.2	1.16-2.76	0.4-1.2	0.92-2.76	0.4-1.2	1,25-2.65	0.4-1.2	1.3-2.4	1.7-3.3			
DN	NPS	Differential	pressures Δp	[bar]									
25	1	40	40										
40	11/2	40	40										
50	2	40	30										
80	3		15	40	40								
100	4		6	36	26								
150	6			16	12	36	30	40	30	18			
200	8			8	6	18	14	30	24	10			
250	10					10	8	16	10	6			
300	12							8	6	3			

Values for standard packing and low-emissions TA-Luft packing. Values do not apply to double stuffing box. Higher differential pressures on request.

Valves Type 73.7, 73.3 with R-Actuator

1	Differe	rential pressures – FC/FTO and FO/FTC										
DA		Face-to-Fac	e Dimensions	;								
K-AC	Uator	R110	R110v	R150	R150v	R200	R200v	R250	R250v	R250vv		
Sprin	g Ranges	0.4-1.2	1.16-2.76	0.4-1.2	0.92-2.76	0.4-1.2	1,25-2.65	0.4-1.2	1.3-2.4	1.7-3.3		
DN	NPS	Differential	pressures ∆p	[bar]								
25	1	32	75									
40	11/2	16	75	75	75							
50	2	6	40	36	75							
80	3		12	12	36	30	75	56	75			
100	4		4	5	18	14	50	26	75	55		
150	6				8	6	26	10	40	28		
200	8				3		12	5	20	14		
250	10						5	3	10	8		
300	12						4		6			

Values for standard packing and low-emissions TA-Luft packing. Values do not apply to double stuffing box. Higher differential pressures on request.

2 Differential pressures – FC/FTC und FO/FTO at supply pressure 4 [barg]

R-Actuator	Face-to-Face Dimensions											
K-Actu	ator	R110	R110v	R150	R150v	R200	R200v	R250	R250v	R250vv		
Spring	Ranges	0.4-1.2	1.16-2.76	0.4-1.2	0.92-2.76	0.4-1.2	1,25-2.65	0.4-1.2	1.3-2.4	1.7-3.3		
DN	NPS	Differential	pressures Δp	[bar]								
25	1		75									
40	11/2	75	75									
50	2	75	40									
80	3		14	75	40							
100	4		6	60	24	75	55					
150	6				10	55	25	75	40	20		
200	8				5	18	14	50	26	10		
250	10						8	25	16	6		
300	12							12	8	3		

Values for standard packing and low-emissions TA-Luft packing. Values do not apply to double stuffing box. Higher differential pressures on request.

High-Pressure

Valves Type 82.7, 82.7-01, 72.3 with Double-Piston-Actuator Single-Acting

1	1 Differential pressures – FC/FTO and FO/FTC															
AT-Actuator		Face-to-Face Dimensions														
4 Sp	rings	60	100	150	220	300	450	600	900	1200	2000	3000	4000	5000	10000	
DN	NPS	Differe	ntial pre	ssures Δ	p [bar]											
25	5 1	10	40													
40	11/2		16	30	40											
50	2		6	12	30	40										
80) 3			3	8	12	24	38								
100) 4				4	6	12	18	26	40						
150	6						4	8	12	18	30	40				
200	8							4	6	8	16	26	36	40		
250	10									4	8	14	20	24	40	
300	12										4	8	12	14	28	
400	16												4	6	10	
500	20													3	6	

Values for standard packing and low-emissions TA-Luft packing. Values do not apply to double stuffing box. Higher differential pressures on request.

Differential pressures – FC/FTC and FO/FTO at supply pressure 4 [barg] 2

AT-Actuator 4 springs		Face-to-Face Dimensions													
		60	100	150	220	300	450	600	900	1200	2000	3000	4000	5000	10000
DN	NPS	Differe	ntial pre	ssures Δ	o [bar]										
25	1	16	40												
40	11/2		16	37	40										
50	2		7	18	34	40									
80	3			5	11	17	30	40							
100	4				5	8	15	21	27	40					
150	6					3	7	10	13	20	36	40			
200	8						3	5	7	11	19	26	37	40	
250	10								3	6	11	14	21	31	40
300	12									3	6	9	13	19	32
400	16												4	6	10
500	20													3	6

Values for standard packing and low-emissions TA-Luft packing. Values do not apply to double stuffing box. Higher differential pressures on request.

Valves Type 73.7, 73.3 with Double-Piston-Actuator Single-Acting

1	Differential pressures — FC/FTO and FO/FTC															
A-Ac	tuator	Face-to-Face Dimensions														
4 Sp	rings	60	100	150	220	300	450	600	900	1200	2000	3000	4000	5000	10000	
DN	NPS	Differe	ntial pre	ssures Δ	o [bar]											
25	i 1	4	35	64	75											
40	11/2		15	30	60	75										
50	2		6	12	28	40	75									
80) 3			3	8	12	24	38	52	75						
100) 4				4	6	12	18	25	40	70	75				
150	6						4	8	12	18	30	40	70	75		
200	8							4	6	8	16	25	36	40	75	
250	10									4	8	14	20	24	40	
300	12										4	8	11	15	28	
400	16												4	6	10	
500	20													3	6	

Values for standard packing and low-emissions TA-Luft packing. Values do not apply to double stuffing box. Higher differential pressures on request.

2 Differential pressures – FC/FTC and FO/FTO at supply pressure 4 [barg]

A-Actuator 4 Springs		Face-to	Face-to-Face Dimensions														
		60	100	150	220	300	450	600	900	1200	2000	3000	4000	5000	10000		
DN	NPS	Differe	Differential pressures Δp [bar]														
25	1	6	30	75													
40	11/2		15	33	65	75											
50	2		6	14	30	42	75										
80	3			4	10	15	28	38	50	75							
100	4				3	6	12	18	25	40	70	75					
150	6						5	8	10	18	32	45	65	75			
200	8							4	6	8	16	25	35	50	75		
250	10									4	8	12	19	26	45		
300	12										5	6	11	15	28		
400	16												4	6	10		
500	20													3	6		

Values for standard packing and low-emissions TA-Luft packing. Values do not apply to double stuffing box. Higher differential pressures on request.

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High-Pressure

Low-Noise Components

1 Stuffing box TA-Luft/ISO 15848



Equivalent to bellows seal.

2 Double stuffing box TA-Luft/ISO 15848



Two independent low-emissions TA Luft packings. Equivalent to bellows seal For toxic, contaminant media.

Optionally with test connection.

3 Bushing seals



Bushing seals for special applications.

Special version with O-rings on the trunnion bearing and shaft.

4 Heating jacket



For process media that remain liquid only above a certain temperature. A heat transfer medium guarantees the required temperature.

5 Type IT1 temperature extension



For low and high temperatures.

7 Cleaning connections



For sticky and contaminated process media, media containing solids.

6 Type IT2 temperature extension



8 Ceramic and carbide metal pockets



For abrasive, erosive and corrosive media.

VETEC low-noise components are effective, reliable and cost-effective solutions to minimize noise emissions, cavitation and erosion. The components can be adapted to the operating conditions that exist in the plant and function in both directions of flow. Existing valves can be retrofitted with low-noise components by VETEC

1 SM 1.0 / SM 1.5



Gases and vapors. Low-noise component built into the valve seat. Ap max. 40 bar

3 SM 2.0 / 2.5



For high differential pressures. Gases and vapors. Δp max. 63 bar





Gas- and steam media. ∆p max. 10 bar



6 SM 8.1 (multi-stage trim)



Liquid media. ∆p max. 40 bar

8 SM 9.1



Liquid media. ∆p max. 40 bar



Liquid media. ∆p max. 40 bar



Sample Configurations

Mounting Positions & Types of Attachment

VETEC rotary plug valves can be combined with pneumatic, electric and hydraulic rotary actuators as well as different valve accessories, such as positioners, solenoid valves, limit switches and other equipment according to IEC 60534-6 or NAMUR Recommendation.



Mounting positions for control valves

- Control valves that include types R, AT or BR 31a actuators can be mounted in any desired position.
- For control valves with types MD and MZ actuators, we recommend installation in horizontal pipelines.

Types of actuator attachment

- Types R, AT and BR 31a actuators are suitable for valve attachment in compliance with type A, B, C or D.
- Types MD and MZ actuators are suitable for valve attachment in compliance with type B or D.
- Further types of attachment on request!

Sample installations for control valves

 R
 With R-actuator
 FC

 A
 B
 FC

 A
 FC
 C

 B
 FTC
 C

 C
 C
 D

 A
 C
 C

 B
 FTC
 C

 C
 C
 D

AT With AT-actuator · FC/FO



can be mounted in any desired position. ommend installation in horizontal pipelines.

achment in compliance with type A, B, C or D. ent in compliance with type B or D.





Certificates & Manufacturer's Declarations

Benefit from Our Experience and Expertise!

CE		ATEX/Directive 2014/34/EU
CE	Declaration of conformity according to Annex IV of Directive 2014/68/EU	Equipment and protective systems intended for use in potentially explosive atmospheres
TA-Luft/ISO 15484	1	SIL (IEC 61508/IEC 61511)
TA-Luft	Industrial valves: Measurement, test and qualification procedures for fugitive emissions	SIL Safety integrity levels for functional safety
EAC		EAC Ex
EHC	Conformity assessment for Eurasian Economic Union TR CU 010/2011 TR CU 032/2011	Conformity assessment for Eurasian Economic Union TR CU 012/2011
DVGW• GAD (EC)	2016/426 • EN161	BAM
0085 DVGW CERT	Typetested design according to DIN EN 16678 with safety function for gas and water service	BAM Non-metal materials for oxygen service
DIN EN ISO 10497	7/API 607	NACE standards
Fire Safe	Type-tested design (fire safety)	NACE International According to MR0103/MR0175
FDA/FMPA		
FDA/FMPA	Non-metallic materials for food industry	TÜVRheinland® CERT ID:9705050656 ISO 9001





SAMSON VETEC



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