

WEKA EPSY Plus



Certified according
ISO 9001:2000



Certified according
PED 97/23/EC



Certified according
ATEX 94/9/EC

Member of the **ARCA FLOW** Group

● General description

The WEKA EPSY^{Plus} valve is based on our experience of more than 30 years and significant achievements in development and manufacturing of control valves. It is specifically designed for low flow applications, and operated between 10...110 bar (class 150, 300 and 600). It offers very high precision and excellent regulation qualities in many different fields of application. It is also recommended for use with extreme temperatures (−196 °C...+430 °C). WEKA works closely together with customers in the development of new solutions for cutting edge projects and specific requirements. Our profound experience for any purpose-built solution renders us an important technological partner. WEKA EPSY^{Plus} valves are widely used in gas and petrochemical industries, for many industrial equipments, food industries, and also in cryogenic processes such as liquid air separation plants as well as cryogenic and high-pressure gas purification facilities.

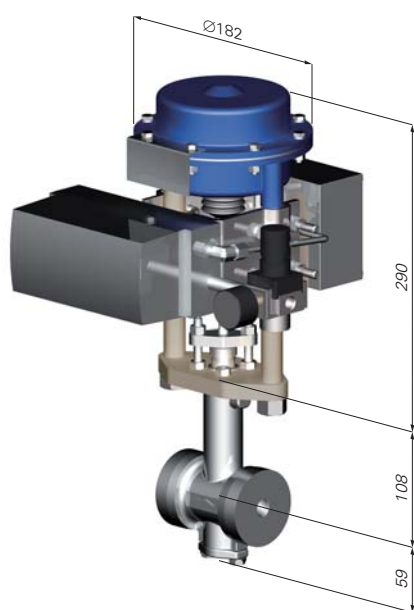
- Simple and robust design is achieved through countless experiments over many years.
- The longer stroke in comparison to the old EPSY and the optional use of modern intelligent positioners allow this valve to have an outstanding control performance.
- Replacement of the seat can be effected from the bottom without dismantling the actuator.
- The compact design (102 mm) allows easy replacement of a ball valve in case of change of «service condition» or the need of additional control function.
- Easy change of Cv and programming of control curve.

Flow coefficient Cv for all sizes

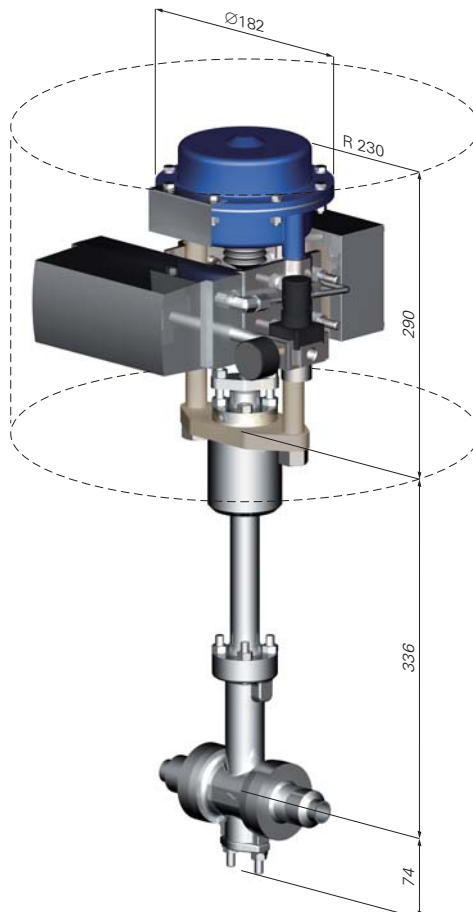
(½", ¾" and 1")

Flow characteristics		Ø Seat (mm)
%	Linear	
3	3.5	12
2	2	
1	1	7
NA	0.5	
NA	0.25	4
NA	0.1	
NA	0.03	
NA	0.01	

● Dimensions

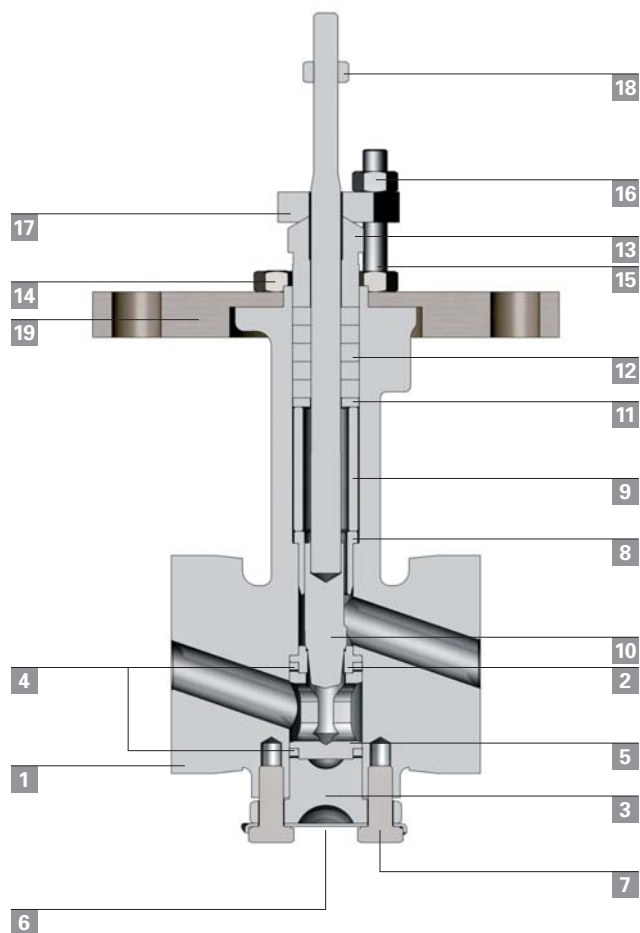


Valve EPSY^{Plus}
(shown with pneumatic actuator,
standard positioner and switch box)

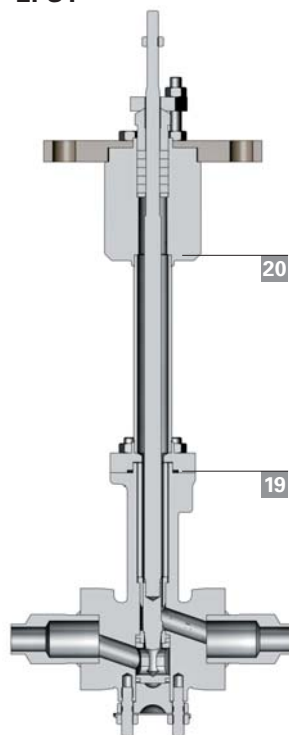


Cryogenic valve EPSY^{Plus}
(shown with pneumatic actuator,
standard positioner and switch box)

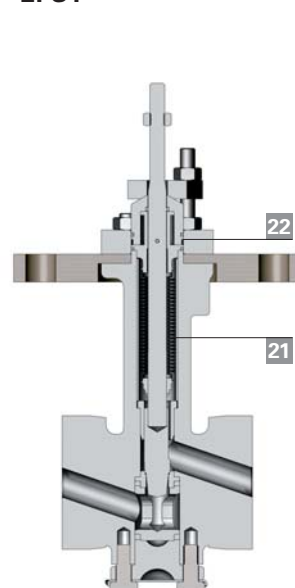
Valve EPSY^{Plus}



Cryogenic valve EPSY^{Plus}




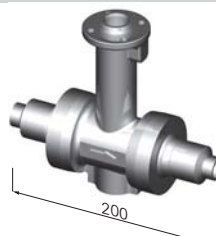




Bellows sealed valve EPSY^{Plus}



Note: Cryogenic execution with bellows seal is also available. Refer to our datasheets to overview all different executions.

● Materials	Service temperature					
	Carbon steel execution		Stainless steel execution			
	−30 < T < +430 °C		−196 < T < +430 °C		−196 < T < +150 °C	
1 Body	A216 WCC (cast)	A105 (forged)	A351CF3M (cast)	A182F316L (forged)	A351CF3M (cast)	A182F316L (forged)
2 Seat	A453 Gr660				PTFE Glas (opt. PCTFE for T < +250 °C)	
3 Bottom Flange	ASTM A105A4-70		Stainless steel 316L			
4 Body Gasket	Graphite					
5 Seat spacer	Stainless steel 316L					
6 Locking plate	Stainless steel A182 F 304					
7 Bolts or screws of bottom flange	Stainless steel ISO 3506 A4-70					
8 Guiding sleeve	A453 Gr660					
9 Spacer	Stainless steel 316L					
10 Plug	316L (stem) + A453Gr660 (Plug head)					
11 Packing retainer	Stainless steel 316L					
12 Packing	see separate table					
13 Packing follower	Stainless steel 316L					
14 2 Short bolts	Stainless steel ISO 3506 A4-70					
15 2 Long bolts	Stainless steel ISO 3506 A4-70					
16 Nuts	Stainless steel ISO 3506 A4-70					
17 Gland flange	A182 F 304					
18 Locking nut	Stainless steel ISO 3506 A4-70					
19 Cryogenic gasket	NA		Stainless steel spring energized C-Ring (Helicoflex)			
20 Cryogenic extension	NA		Stainless steel 316L			
21 Bellows seal	Stainless steel 316L					
22 Bellows seal back up packing	O-Ring NBR (optional FPM)					

● Connections types				Without flanges*			Screwed on flanges			Integrated flanges**		
												
ASME/ANSI B16.5	ISO 7005-1	DIN EN 1092-1		½"	¾"	1"	½"	¾"	1"	½"	¾"	1"
FF	Flat Face	Type A	Type A	NA	x	x	x	x	x	NA	x	x
RF	Raised Face	Type B1	Type B1/B2	NA	x	x	x	x	x	NA	x	x
LF	Large Femal face	Type F/F1	Type F	NA	x	x	x	x	x	NA	x	x
LM	Large Mal face	Type E/E1	Type E	NA	x	x	x	x	x	NA	x	x
LG	Large Grove face	Type D/D1	Type D	NA	x	x	x	x	x	NA	x	x
LT	Large Tongue face	Type C/C1	Type C	NA	x	x	x	x	x	NA	x	x
RTJ	Ring Joint face	NA	NA	NA	x	x	NA	NA	NA	NA	NA	NA
				Butt welded			NPT			NPT with adaptor		
												
½"				x			NA			x		
¾"				x			NA			x		
1"				x			x			NA		


Germanischer Lloyd



TÜV

SVTI
ASIT



Lloyd's
Register



Competence
Quality
Flexibility



- 1940** Arthur **Welter** and August **Karrer** found **WEKA** GmbH
- 1949** Reorganisation as WEKA AG
- 1950** First WEKA Stainless Steel Valve
- 1962** First patent for the WEKA Visual Level Indicator
- 1978** First WEKA Cryogenic Valve and Coupling
- 1981** WEKA becomes part of IMO/GEMS Group, USA
- 1982** Approval according to the German (AD-HP 0) and Swiss (SVDB501) pressure vessel rules. Audit of first WEKA Quality Control System
- 1991** New facilities in Bäretswil, approx. 25 km South-east of Zurich
- 1995** Integration of the European production of GEMS Tank Level Instruments
- 2001** WEKA joins as member of ARCA group, Germany
- 2002** Audit of TQM System (German Lloyd acc. to ISO 9001:2000 and CE directive 7/23/EC Module H/H1)
- 2003** Approval by Zelm Ex acc. to CE directive 94/9/CE (ATEX 95)
- 2007** WEKA integrates personnel and manufacturing facilities of Flowserve S.A. in La Chaux-de-Fonds (Switzerland) including «Bättig» Valve program MicroFlow and LowFlow Valves
- 2007** WEKA introduces SAP All-in-One for all business processes successfully within short time



A member of the ARCA Flow Group:



Cryogenic Components



Stainless Steel Valves



MicroFlow Valves



Visual Level Indicators



Tank Level Instruments



Visual Level Indicators

Tank Level Instruments

Cryogenic Components

Stainless Steel Valves

MicroFlow Valves



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