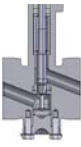
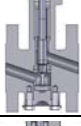
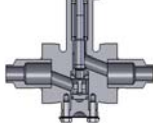


BODY TYPE		Model-Nr.	SIZE	PACKING
	Wafer	41117	3/4"	STD
		41122	1"	STD
		41349	3/4"	Bellows sealed
		41119	1"	Bellows sealed
	Screwed-on flange	41352	1/2"	STD
		41206	3/4"	STD
		41353	1"	STD
	Threaded	41357	1/2" - 1" NPT-F	
	Cryogenic	41118	1/2" - 1"	STD
		41120	1/2" - 1"	Bellows sealed
	Integral flanges	41360	1"	STD
		41361	1"	Bellows sealed
	BW/SW/OW pipe connections	41443	BW 1/2" - 1"	STD
		41978	SW 1/2" - 1"	STD
		41979	OW 1/2" - 1"	STD
		41207	1/2" - 1"	Bellows sealed

Information on the EPSY^{PLUS} valve line

The datasheets are designed in the same way for all models. The valve sub-unit is classified with the first part of the model code and is shown on the respective datasheet. All accessories of the valve (such as actuator, positioner, etc) are shown on their own respective datasheets and classified by the additionally following digits of the model code.

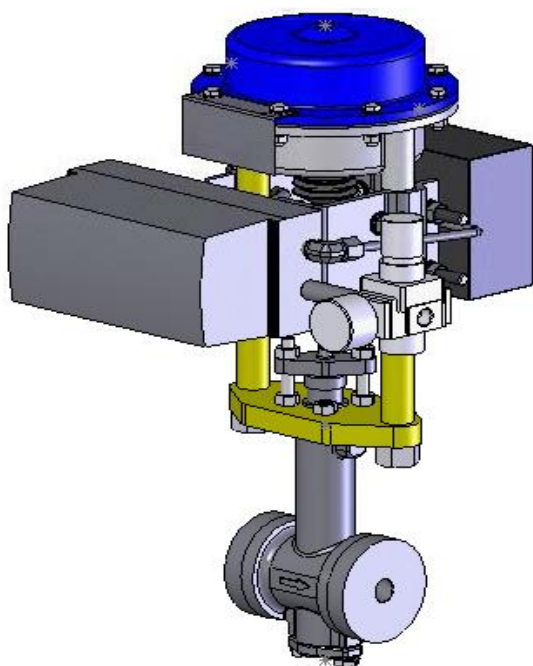
The datasheets describe the standard program of EPSY^{PLUS} line. Other features and options, such as special butt weld dimensions or live loaded packings are available upon request.

Standard delivery time for the EPSY^{PLUS} valve is around 4 weeks exWorks, starting from receipt of technically and commercially clarified and confirmed order. Shorter delivery times are subject to mutual agreement.

Delivery conditions are according to the "General conditions of contract for the supply of plant and machinery" (VSM 2001).

According to the PED(97/23/EC) assessment, EPSY^{PLUS} valves are classified under article 3.3 confirming that no CE marking and no declaration of conformity is necessary.

EPSY^{PLUS} valves in combination with an actuator and other electrical devices with separate declaration of conformity fulfil the requirements of explosion proof equipment (ATEX) and may be used in Zone 1 and 2. The declaration of conformity can be downloaded under www.weka-ag.ch > support > approvals



EPST ^{Plus}					Body material		connections		Trim		Packing		Actuator		Positioner & switches		Solenoid valve		Pressure Reg. & Piping	
Valve Datasheet																				
Valve model-Nr.					6	7	8	9	10	11	12	13	14	15	16	17	18			
										-										

DESCRIPTION

- The EPSY valve is a Low Flow valve in sizes 1/2" - 3/4" - 1" destined to a wide range of application
- The following datasheets will help define valve model code.
- The datasheets are organized in 2 parts. The first part gives the datas of the valve sub-unit for each model
- The second part shows the accessories (actuator, positioner, etc) that can be mounted on the valve sub-unit
- The features indicated on one datasheets may not be overtaken to other datasheets.

- One datasheet is dedicated to each model (first 5 digit of the code)
- The model code defines a parts list. Others special features must be cleared with the manufacturer
- Wafer form is not available for size 1/2" (only on special order)
- Integral flanges (RF) are only available for 1" and 3/4" valves, and only up to Class 300.

VALVE COMMON FEATURES :

- Design pressure 100bar
- PED 97/23/CE: Valve fall under article 3.3 of the Pressure Equipment Directive (DN < 32)
- ATEX 94/9/EC: no intrisical risk of ignition during operation
(See manufacturer's declaration of conformity)
- Flow direction "fluid tends to open"
- Stroke of valve 10mm

OPTIONAL FEATURES :

- Oil & Grease free for Oxygen or cryogenic service.
- Flow direction "fluid tends to close" (not necessary for NO valves)
- NACE MR01 75 certification for outside parts or all parts (on special order)

STANDARD TESTING

- Seat tightness Class IV (Class VI for soft seat), tested at 6 bar under seat with air
- Tightness thru body tested at 6bar with air and leak spray
- Hydraulic test at 1.5 x PN on body before assembly
- Functional test (open/close, check of stroke and positioner set up)

MARKING

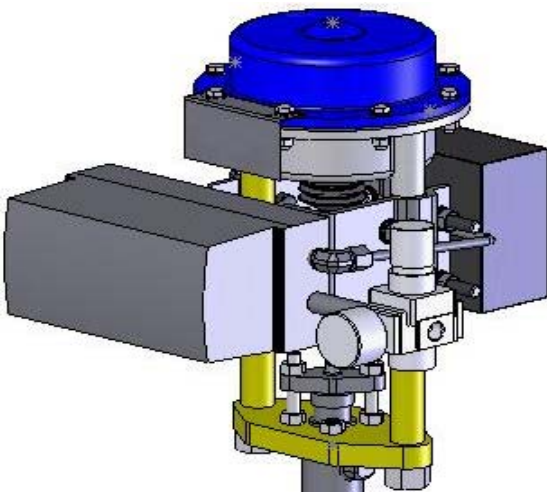
- On type plate (fixed on the actuator)
 - Model code / DN / PN / Cv / TAG-Nbr / Body Material
 - CE conformity: PED Art. 3.3
- On Valve body:
 - Flow direction
 - Heat or batch number

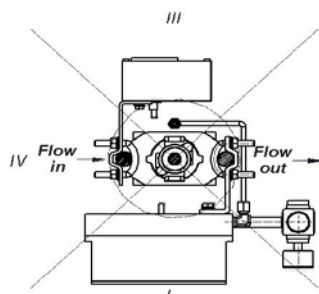
STANDARD DOCUMENTATION

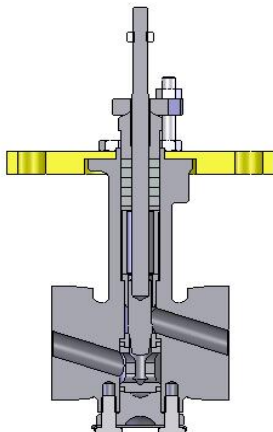
- Test and conformity certificate acc. EN 10204 2.2

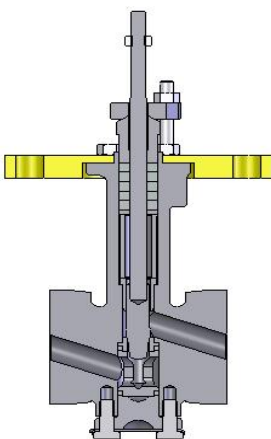
OPTIONAL DOCUMENTATION (on request, with extra cost)

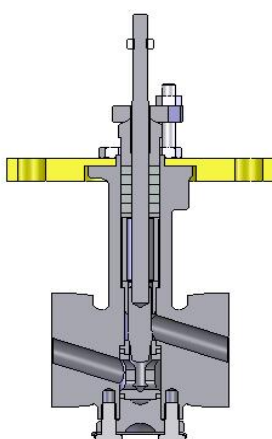
- Material certificate acc. EN 10204 3.1 for pressure bearing parts
- Customized drawing with bill of material

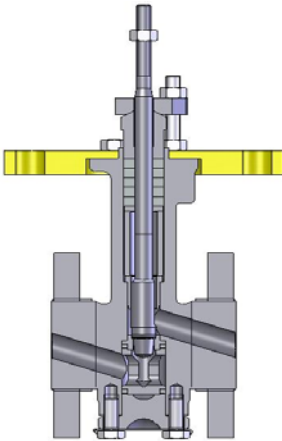
	EPSY^{Plus}		Body material	connections	Trim	Packing		Actuator	Positioner & switches	Solenoid valve	Pressure Reg & Piping							
	Standard accessories																	
	Valve model-Nr.		6	7	8	9	10	11	12	13	14	15	16	17	18			
									-									
• Other accessories on request • For positioners, see separate datasheet																		
ACTUATOR STANDARD FEATURES: (same for all sizes, seat diameters and pressure drops) • 10mm Stroke allowing precision regulating • Working temperature -30°C...+90°C															Digit	12		
OPTIONAL FEATURES : • Spring range 0,2-1,0 (3-15Psi) or splitt range 0,2 - 0,6 and 0,6 - 1,0 Bar available • All external parts in stainless steel • Stroke limitation and Handwheel • Double acting Codification • Standard actuators: Without actuator Handwheel for manual valve Normally Closed ; MA3.16 A6 7S Po STD ; spring range 3,4 to 4,6 Barg, min pressure supply 4,8 Barg Normally Opened ; MA3.16 A6 2S Ps STD ; spring range 1,0 to 1,4 Barg, min pressure supply 1,5 Barg • Optional actuators: Stainless steel act. NC ; MA3.16 A6 7S Po exec. A ; spring range 3,4 to 4,6 Barg, min pres. supply 4,8 Barg Stainless steel act. NO ; MA3.16 A6 2S Ps exec. A ; spring range 1,0 to 1,4 Barg, min pres. supply 1,5 Barg																		0
																		A
																		B
																		C
																		D
																		E
STANDARD SOLENOID VALVES:															Digit	15 16		
• Side mounted on actuator leg • Special schematic available (e.g. fast closing with positioner) Codification • Without solenoid valve • 3/2 ; Typ 131M14 ; G1/8"-Ø1,5 ; 24V DC ; 2,5W ; brass body ; connector with LED, PG9, IP65 • 3/2 ; Typ E131K03 ; G1/4"-Ø2,5 ; 24V DC ; 9W ; brass body ; connector w/o LED, PG9, IP65																		
															0	0		
															A	A		
															A	B		
PRESSURE REGULATOR AND PIPING															Digit	17 18		
• Side mounted when alone or in combination with a solenoid valve • Nippel mounted when combined with a positioner • Pressure regulator model : SMC AC20 KMK153 / Typ C.01-10 1/4" with filter Note : Piping is allways needed when positioner, pressure regulator or solenoid valve is installed. Codification • without piping (e.g. no positioner or no solenoid valve) • plastic piping Ø8x1 with plastic instant fittings ; -20°C...+80°C same • Copper piping Ø8x1, with brass fittings ; -40°C ... +180°C same • Stainless steel piping Ø6x1 with standard stainless steel fittings ; T < +200°C same • Stainless steel Ø6x1 with Swagelok fittings ; T < +230°C (higher on request) same																		
															0	0		
															0	1		
															B	B		
															0	2		
															B	C		
															0	4		
															B	E		
															0	6		
															B	G		

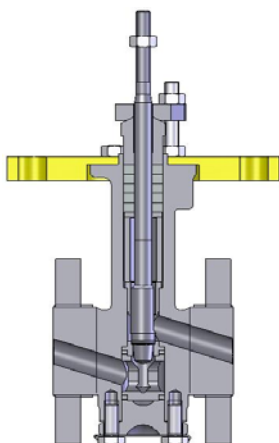
 Figure 1 (positioner and additional feedback unit in standard pos. I, resp. pos. III)	EPSP^{Plus}										Body material	connections	Trim	Packing	Actuator	Positioner & switches	Solenoid valve	Pressure Reg. & Piping					
	Positioners and Switches																						
	Valve model-Nr.										6	7	8	9	10	11	12	13	14	15	16	17	18
																-							
- Other positioner and switches on request - Second device allways mounted on opposite side of first device - See Accessories for the code of the piping																							
STANDARD POSITIONER FEATURES: (not for manual valves)																					Digit	13	14
• Indications to standard positioner are based on positioner ARCAPro (Siemens PS2) • Signal 4 - 20mA, direct (signal increase opens NC valve or closes NO valve) ; Energy supply by signal • Air supply connection: G1/4" ; Maximum air supply 1,4-7 barg • Electrical connection: M20x1,5 ; screwed terminal 2,5 AWG28-12 ; Current consumption < 10mA • Instrument Air according to DIN ISO 8573-1 class 2 ; Standby air consumption < 36 NL/h • Integral switches (Alarm Modul) and feedback signal (Module Iy) are available • Mounting according to IEC 534. See figure 1 for position (without indication, standard position is I) Feedback unit alone will be mounted in position I - Changing from position I to III (or II to IV) is easy to do, without turning the actuator - Changing from position I to II (or III to IV) request to turn the actuator • Linearity < 0.5% / Dead zone < 0,3% (adjustable 0,1% - 10%) / Repetitive control deviation < 0,3% • Gauges bloc available, showing input air supply pressure and output signal pressure • Temperature during operation: -30°C...+80°C for T4 ; for transport and storage -40...+80°C • Change of Cv value or characteristic are possible thru programming of ARCAPro positioner • Indirect signal 20 - 4mA or splitt range adjustable on device																							
OPTIONAL FEATURES :																							
• HART or PROFIBUS communication • Explosion proof version EEx d • Display in French • Combination of positioner and switches on request																							
Codification																					Without	0	0
• ARCAPro Single acting, not Ex, 2 wires, 4-20mA, Alu casing, language D/E																					827A.E2-000-M10-G	A	A
same with gauges																					827A.E2-000-M10-G	A	B
same with alarm module																					827A.E2-0B0-M10-G	A	C
same with alarm module and gauges																					827A.E2-0B0-M10-G	A	D
same with feedback unit 4-20mA																					827A.E2-A00-M10-G	A	E
same with feedback unit 4-20mA and gauges																					827A.E2-A00-M10-G	A	F
• ARCAPro Single acting, Eex ia/ib, 2wires, 4-20mA, Alu casing, language D/E																					827A.X2-000-M10-G	C	A
same with gauges																					827A.X2-000-M10-G	C	B
same with alarm module																					827A.X2-0B0-M10-G	C	C
same with alarm module and gauges																					827A.X2-0B0-M10-G	C	D
same with integral feedback unit 4-20mA																					827A.X2-A00-M10-G	C	E
same with integral feedback unit 4-20mA and gauges																					827A.X2-A00-M10-G	C	F
same with alarm modul & integral feedback unit 4-20mA																					827A.X2-AB0-M10-G	C	G
same with alarm modul & integral feedback unit 4-20mA & gauges																					827A.X2-AB0-M10-G	C	H
• PMV P3 Single acting, pneumatic 3-15Psi, Alu casing, 1/4" NPT, ATEX																					PA3XX-SNU-39PV-3ZX	P	A
same with gauges 1/8" NPT																					PA3XX-SNU-39PV-3ZN	P	B
• PMV P3 Single acting, 2wires, 4-20mA, Alu casing, 1/4" NPT																					EP3XX-SNU-39PV-4ZX	P	C
same with gauges 1/8" NPT																					EP3XX-SNU-39PV-4ZN	P	D
• PMV P3 Single acting, Eex ia, 2 wires, 4-20mA, Alu casing, 1/4"NPT, ATEX																					EP3IS-SNU-39PV-4ZX	P	E
same with gauges 1/8" NPT																					EP3IS-SNU-39PV-4ZN	P	F
• PMV P3 Single acting, Eex d, 2 wires, 4-20mA, Alu casing, 1/4" NPT, ATEX																					EP3EU-SNU-39PV-4ZX	P	G
same with gauges 1/8" NPT																					EP3EU-SNU-39PV-4ZN	P	H
EXTERNAL FEEDBACK UNIT AND SWITCHES: (not for manual valve)																					Without	0	0
• Standard configuration is 2 switches indicating open and close position																							
Codification																							
• Side Mounted switches (direct mounting on actuator leg):																							
Proximity sensor, EEx ia IIC T6/NAMUR, 8,2VDC, max 30mA, LED, brass-PTFE, IP67, connector & 5m cable																					S	A	
Proximity sensor, EEx ia IIC T6/NAMUR, 8,2VDC, max 60mA, stainless steel, IP67, 2m cable																					S	B	
• Feedback unit (mounting according to IEC 534)																							
PMV Feedback unit with 2 mechanical SPDT switches, 250VAC																					F5ISNU-MECXXX-39-NXDD-B-Z	P	A
PMV Feedback unit with 2 Namur proximity sensors, 5-25VDC																					F5ISNU-NAMXXX-39-NXDD-B-Z	P	B

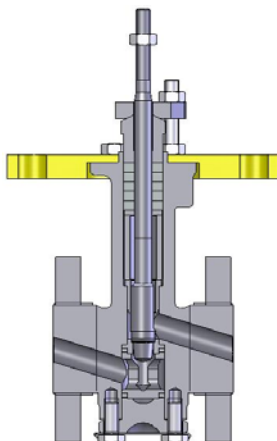
	EPSY^{Plus}		Body material	connections	Trim	Packing	Actuator	Positioner & switches	Solenoid valve	Pressure Reg & Piping						
	Wafer type 1" / DN25															
	Valve model-Nr.		6	7	8	9	10	11	12	13	14	15	16	17	18	
	4	1	1	1	7						-					
	(For actuator and accessories, see separate datasheet)															
STANDARD FEATURES • Body Material: - forged body carbon steel A105 - forged body stainless steel 316L • Temp. range carbon steel : -10°C ... 150°C • Temp. range stainless steel : -30°C ... 250°C • Mounting position: any • Standard packing compression set OPTIONAL FEATURES • Other Cv values on special order • Live loaded packing compression set • Packing with security O-Ring (NBR or Viton) MATERIALS • Plug stem: 316L • Plug head: A453 Gr.660 • Seat: 316L (or PTFE for Class VI) • Extension gasket: metallic C-ring • Bolting: stainless steel • Packing flang: 316L • Body gaskets: graphite • Spacers and guides: 316L	FLANGE SIZE												Digit	7	8	
	ANSI B16.5	• FF & RF ; Class 300 & 600 • LF ; Class 300 & 600 • LM ; Class 300 & 600 • LG ; Class 300 & 600 • LT ; Class 300 & 600 • RTJ ; Class 300 & 600													0	1
															0	2
															0	3
															0	4
															0	5
															0	6
	DIN EN 1092	• Forme A ; PN10 à 100 (FF) • Forme B1 ; PN10 à 40 (RF) • Forme B2 ; PN64 à 100 (RF) • Forme F ; PN10 à 100 (LF ou SEFF) • Forme E ; PN10 à 100 (LM ou SEMM) • Forme D ; PN10 à 100 (LG ou DEFF) • Forme C ; PN10 à 100 (LT ou DEMM)													0	7
															0	8
															0	9
															1	0
															1	1
															1	2
	ISO 7005-1 (= ISO PN)	• Type A ; PN10-40, PN50, 110 (FF) • Type B1 ; PN20, 50 / B2; PN10-40 (RF) • Type F ; PN10, 16, 25, 40 (LF or SEFF) • Type F1 ; PN 50, 110 (LF or SEFF) • Type E ; PN10, 16, 25, 40 (LM or SEMM) • Type E1 ; PN50, 110 (LM or SEMM) • Type D ; PN10, 16, 25, 40 (LG or DEFF) • Type D1 ; PN50, 110 (LG or DEFF) • Type C ; PN10, 16, 25, 40 (LT or DEMM) • Type C1 ; PN50, 110 (LT or DEMM)													1	4
															1	5
															1	6
															1	7
															1	8
															1	9
															2	0
															2	1
															2	2
															2	3
	TRIM												Digit	9		
			Metal seat (A453Gr660)		Soft seat (PTFE Glas)		seat bore									
• Cv 3,5 Lin		A		L		Ø12										
• Cv 3,0 =%		B		M												
• Cv 2 Lin		C		N												
• Cv 2 =%		D		O												
• Cv 1 Lin		E		P		Ø7										
• Cv 1 =%		F		Q												
• Cv 0,5 Lin		G		R												
• Cv 0,25 Lin		H		S												
• Cv 0,1 Lin		I		T		Ø4										
• Cv 0,03 Lin		J		U												
• Cv 0,01 Lin		K		V												
BODY MATERIAL & PRESSURE CLASS												Digit	6			
A105				316L												
• Class 300	A	• Class 300	S													
• Class 150	B	• Class 150	T													
• Class 600	C	• Class 600	U													
• PN 16	E	• PN 16	W													
• PN 40	H	• PN 40	Z													
• PN 100	K	• PN 100	R													
PACKING												Digit	10			
		Material				Security O-Ring:				w/o	NBR	VITON				
• Standard		Preformed braided PTFE w.Kevlar				-100°C ... +150°C				A	I	Q				
• Extrem temp.		Expanded Graphite preformed (BAM for oxygen)				-200°C ... +430°C				B	(J)	(R)				
(NBR) -30...+110°C		Exp. Graphit + corrosion inhibitor				-200°C ... +430°C				C	(K)	(S)				
(Viton) -60...+150°C		Exp. Graphit + cor. Inhi. Low sulfure				-200°C ... +430°C				D	(L)	(T)				
• Oxygen/Food		Preformed pure braided PTFE (BAM, FMPPA, WRC)				-200°C ... +300°C				E	M	U				
• O2 fire-safe		Pref. pure br. PTFE w. fire-safe graphit ring				-200°C ... +300°C				F	N	V				

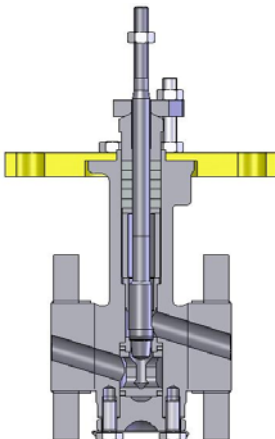


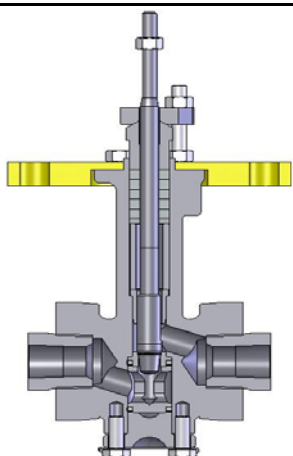
	EPSP^{Plus}				Body material	connections	Trim	Packing		Actuator	Positioner & switches	Solenoid valve	Pressure Reg & Piping																																										
	Wafer type 3/4" / DN20																																																						
	Valve model-Nr.				6	7	8	9	10	11	12	13	14	15	16	17	18																																						
	4	1	1	2	2						-																																												
	(For actuator and accessories, see separate datasheet)																																																						
FLANGE SIZE																																																							
														Digit	7	8																																							
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															0	5																																							
															0	6																																							
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															0	8																																							
															0	9																																							
															1	0																																							
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ISO 7005-1 (= ISO PN) • Type A ; PN10-40, PN50, 110 (FF) • Type B1 ; PN20, 50 / B2; PN10-40 (RF) • Type F ; PN10, 16, 25, 40 (LF or SEFF) • Type F1 ; PN 50, 110 (LF or SEFF) • Type E ; PN10, 16, 25, 40 (LM or SEMM) • Type E1 ; PN50, 110 (LM or SEMM) • Type D ; PN10, 16, 25, 40 (LG or DEFF) • Type D1 ; PN50, 110 (LG or DEFF) • Type C ; PN10, 16, 25, 40 (LT or DEMM) • Type C1 ; PN50, 110 (LT or DEMM)															1	3																																							
															1	4																																							
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															2	0																																							
															2	1																																							
															2	2																																							
TRIM <table><tr><td></td><td>Metal seat (A453Gr660)</td><td>Soft seat (PTFE Glas)</td><td rowspan="3">seat bore</td></tr><tr><td>• Cv 3,5 Lin</td><td>A</td><td>L</td></tr><tr><td>• Cv 3,0 =%</td><td>B</td><td>M</td></tr><tr><td>• Cv 2 Lin</td><td>C</td><td>N</td><td rowspan="3">ø12</td></tr><tr><td>• Cv 2 =%</td><td>D</td><td>O</td></tr><tr><td>• Cv 1 Lin</td><td>E</td><td>P</td></tr><tr><td>• Cv 1 =%</td><td>F</td><td>Q</td><td rowspan="3">ø7</td></tr><tr><td>• Cv 0,5 Lin</td><td>G</td><td>R</td></tr><tr><td>• Cv 0,25 Lin</td><td>H</td><td>S</td></tr><tr><td>• Cv 0,1 Lin</td><td>I</td><td>T</td><td rowspan="4">ø4</td></tr><tr><td>• Cv 0,03 Lin</td><td>J</td><td>U</td></tr><tr><td>• Cv 0,01 Lin</td><td>K</td><td>V</td></tr></table>															Metal seat (A453Gr660)	Soft seat (PTFE Glas)	seat bore	• Cv 3,5 Lin	A	L	• Cv 3,0 =%	B	M	• Cv 2 Lin	C	N	ø12	• Cv 2 =%	D	O	• Cv 1 Lin	E	P	• Cv 1 =%	F	Q	ø7	• Cv 0,5 Lin	G	R	• Cv 0,25 Lin	H	S	• Cv 0,1 Lin	I	T	ø4	• Cv 0,03 Lin	J	U	• Cv 0,01 Lin	K	V	Digit	9
															Metal seat (A453Gr660)	Soft seat (PTFE Glas)		seat bore																																					
														• Cv 3,5 Lin	A	L																																							
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														• Cv 2 Lin	C	N	ø12																																						
														• Cv 2 =%	D	O																																							
														• Cv 1 Lin	E	P																																							
														• Cv 1 =%	F	Q	ø7																																						
														• Cv 0,5 Lin	G	R																																							
														• Cv 0,25 Lin	H	S																																							
														• Cv 0,1 Lin	I	T	ø4																																						
														• Cv 0,03 Lin	J	U																																							
														• Cv 0,01 Lin	K	V																																							
														BODY MATERIAL & PRESSURE CLASS														Digit	6																										
														A105					316L																																				
• Class 300	A			• Class 300	S																																																		
• Class 150	B			• Class 150	T																																																		
• Class 600	C			• Class 600	U																																																		
• PN 16	E			• PN 16	W																																																		
• PN 40	H			• PN 40	Z																																																		
• PN 100	K			• PN 100	R																																																		
PACKING																		Digit	10																																				
		Material				Security O-Ring:				w/o	NBR	VITON																																											
• Standard	Preformed braided PTFE w.Kevlar				-100°C ... +150°C				A	I	Q																																												
• Extrem temp. (NBR) -30...+110°C (Viton) -60... +150°C	Expanded Graphite preformed (BAM for oxygen)				-200°C ... +430°C				B	(J)	(R)																																												
	Exp. Graphit + corrosion inhibitor				-200°C ... +430°C				C	(K)	(S)																																												
	Exp. Graphit + cor. Inhi. Low sulfure				-200°C ... +430°C				D	(L)	(T)																																												
• Oxygen/Food	Preformed pure braided PTFE (BAM, FMPPA, WRC)				-200°C ... +300°C				E	M	U																																												
• O2 fire-safe	Pref. pure br. PTFE w. fire-safe graphit ring				-200°C ... +300°C				F	N	V																																												

	EPSY^{Plus}										Body material	connections	Trim	Packing		Actuator	Positioner & switches	Solenoid valve	Pressure Reg & Piping															
	Screwed on Flange type 1/2" / DN15																																	
	Valve model-Nr.										6	7	8	9	10	11	12	13	14	15	16	17	18											
	4	1	3	5	2							-																						
	(For actuator and accessories, see separate datasheet)																																	
FLANGE SIZE																																		
Digit																																		
7																																		
8																																		
STANDARD FEATURES - Body Material: - forged body carbon steel A105 - forged body stainless steel 316L - Temp. range carbon steel : -10°C ... 150°C - Temp. range stainless steel : -30°C ... 250°C - Mounting position: any - Standard packing compression set OPTIONAL FEATURES - Other Cv values on special order MATERIALS - Plug stem: 316L - Plug head: A453 Gr.660 - Seat: 316L (or PTFE for Class VI) - Extension gasket: metallic C-ring - Bolting: stainless steel - Packing flang: 316L - Body gaskets: graphite - Spacers and guides: 316L																							ANSI B16.5 - FF ; Class 300 & 600 - RF ; Class 300 & 600 - LF ; Class 300 & 600 - LM ; Class 300 & 600 - LG ; Class 300 & 600 - LT ; Class 300 & 600 - RTJ ; Class 300 & 600 DIN EN 1092 - Forme A ; PN10 à 100 (FF) - Forme B1 ; PN10 à 40 (RF) - Forme B2 ; PN64 à 100 (RF) - Forme F ; PN10 à 100 (LF ou SEFF) - Forme E ; PN10 à 100 (LM ou SEMM) - Forme D ; PN10 à 100 (LG ou DEFF) - Forme C ; PN10 à 100 (LT ou DEMM) ISO 7005-1 (= ISO PN) - Type A ; PN10-40, PN50, 110 (FF) - Type B1 ; PN20, 50 / B2; PN10-40 (RF) - Type F ; PN10, 16, 25, 40 (LF or SEFF) - Type F1 ; PN 50, 110 (LF or SEFF) - Type E ; PN10, 16, 25, 40 (LM or SEMM) - Type E1 ; PN50, 110 (LM or SEMM) - Type D ; PN10, 16, 25, 40 (LG or DEFF) - Type D1 ; PN50, 110 (LG or DEFF) - Type C ; PN10, 16, 25, 40 (LT or DEMM) - Type C1 ; PN50, 110 (LT or DEMM)										0	1
																																	0	2
																																	0	3
																																	0	4
																																	0	5
																																	0	6
																																	0	7
																																	0	8
																																	0	9
																																	1	0
																																	1	1
																																	1	2
																																	1	3
																																	1	4
																																	1	5
																																	1	6
																																	1	7
																																	1	8
																																	1	9
																																	2	0
																																	2	1
																																	2	2
																																	2	3
																																	2	4
																																	TRIM	
Digit																																		
9																																		
seat bore																																		
- Cv 3,5 Lin - Cv 3,0 =% - Cv 2 Lin - Cv 2 =% - Cv 1 Lin - Cv 1 =% - Cv 0,5 Lin - Cv 0,25 Lin - Cv 0,1 Lin - Cv 0,03 Lin - Cv 0,01 Lin																							Metal seat (A453Gr660)		Soft seat (PTFE Glas)		ø12 ø7 ø4							
																							A		L									
																							B		M									
																							C		N									
																							D		O									
E		P		ø7																														
F		Q																																
G		R																																
H		S		ø4																														
I		T																																
J		U																																
K		V																																



	EPSY^{Plus}				Body material	connections	Trim	Packing		Actuator	Positioner & switches	Solenoid valve	Pressure Reg & Piping																			
	Screwed on Flange type 3/4" / DN20																															
	Valve model-Nr.				6	7	8	9	10	11	12	13	14	15	16	17	18															
	4	1	2	0	6						-																					
	(For actuator and accessories, see separate datasheet)																															
FLANGE SIZE																																
														Digit	7	8																
STANDARD FEATURES • Body Material: - forged body carbon steel A105 - forged body stainless steel 316L • Temp. range carbon steel : -10°C ... 150°C • Temp. range stainless steel : -30°C ... 250°C • Mounting position: any • Standard packing compression set																		ANSI B16.5	• FF ; Class 300 & 600 • RF ; Class 300 & 600 • LF ; Class 300 & 600 • LM ; Class 300 & 600 • LG ; Class 300 & 600 • LT ; Class 300 & 600 • RTJ ; Class 300 & 600												0	1
																															0	2
																															0	3
																															0	4
																															0	5
																															0	6
																															0	7
DIN EN 1092 • Forme A ; PN10 à 100 (FF) • Forme B1 ; PN10 à 40 (RF) • Forme B2 ; PN64 à 100 (RF) • Forme F ; PN10 à 100 (LF ou SEFF) • Forme E ; PN10 à 100 (LM ou SEMM) • Forme D ; PN10 à 100 (LG ou DEFF) • Forme C ; PN10 à 100 (LT ou DEMM)																		0	8													
																		0	9													
																		1	0													
																		1	1													
																		1	2													
																		1	3													
																		1	4													
OPTIONAL FEATURES • Other Cv values on special order																		ISO 7005-1 (= ISO PN)	• Type A ; PN10-40, PN50, 110 (FF) • Type B1 ; PN20, 50 / B2; PN10-40 (RF) • Type F ; PN10, 16, 25, 40 (LF or SEFF) • Type F1 ; PN 50, 110 (LF or SEFF) • Type E ; PN10, 16, 25, 40 (LM or SEMM) • Type E1 ; PN50, 110 (LM or SEMM) • Type D ; PN10, 16, 25, 40 (LG or DEFF) • Type D1 ; PN50, 110 (LG or DEFF) • Type C ; PN10, 16, 25, 40 (LT or DEMM) • Type C1 ; PN50, 110 (LT or DEMM)												1	5
																															1	6
																															1	7
																															1	8
																															1	9
																															2	0
																															2	1
																															2	2
																															2	3
																															2	4
MATERIALS • Plug stem: 316L • Plug head: A453 Gr.660 • Seat: 316L (or PTFE for Class VI) • Extension gasket: metallic C-ring • Bolting: stainless steel • Packing flang: 316L • Body gaskets: graphite • Spacers and guides: 316L																																
BODY MATERIAL & PRESSURE CLASS														Digit	6																	
A105					316L																											
• Class 300		A		• Class 300		S																										
• Class 150		B		• Class 150		T																										
• Class 600		C		• Class 600		U																										
• PN 16		E		• PN 16		W																										
• PN 40		H		• PN 40		Z																										
• PN 100		K		• PN 100		R																										
PACKING																		Digit	10													
Material														Security O-Ring:		w/o	NBR	VITON														
• Standard														Preformed braided PTFE w.Kevlar		-100°C ... +150°C	A	I	Q													
• Extrem temp.														Expanded Graphite preformed (BAM for oxygen)		-200°C ... +430°C	B	(J)	(R)													
(NBR) -30...+110°C														Exp. Graphit + corrosion inhibitor		-200°C ... +430°C	C	(K)	(S)													
(Viton) -60... +150°C														Exp. Graphit + cor. Inhi. Low sulfure		-200°C ... +430°C	D	(L)	(T)													
• Oxygen/Food														Preformed pure braided PTFE (BAM, FMPPA, WRC)		-200°C ... +300°C	E	M	U													
• O2 fire-safe														Pref. pure br. PTFE w. fire-safe graphit ring		-200°C ... +300°C	F	N	V													

	EPSP^{Plus}				Body material	connections	Trim	Packing		Actuator	Positioner & switches	Solenoid valve	Pressure Reg & Piping						
	Screwed on Flange type 1" / DN25																		
	Valve model-Nr.				6	7	8	9	10	11	12	13	14	15	16	17	18		
	4	1	3	5	3						-								
	(For actuator and accessories, see separate datasheet)																		
FLANGE SIZE																			
ANSI B16.5 • FF ; Class 300 & 600 • RF ; Class 300 & 600 • LF ; Class 300 & 600 • LM ; Class 300 & 600 • LG ; Class 300 & 600 • LT ; Class 300 & 600 • RTJ ; Class 300 & 600																Digit	7	8	
																	0	1	
DIN EN 1092 • Forme A ; PN10 à 100 (FF) • Forme B1 ; PN10 à 40 (RF) • Forme B2 ; PN64 à 100 (RF) • Forme F ; PN10 à 100 (LF ou SEFF) • Forme E ; PN10 à 100 (LM ou SEMM) • Forme D ; PN10 à 100 (LG ou DEFF) • Forme C ; PN10 à 100 (LT ou DEMM)																	0	8	
																	0	9	
																	1	0	
																	1	1	
																	1	2	
																	1	3	
																	1	4	
ISO 7005-1 (= ISO PN) • Type A ; PN10-40, PN50, 110 (FF) • Type B1 ; PN20, 50 / B2; PN10-40 (RF) • Type F ; PN10, 16, 25, 40 (LF or SEFF) • Type F1 ; PN 50, 110 (LF or SEFF) • Type E ; PN10, 16, 25, 40 (LM or SEMM) • Type E1 ; PN50, 110 (LM or SEMM) • Type D ; PN10, 16, 25, 40 (LG or DEFF) • Type D1 ; PN50, 110 (LG or DEFF) • Type C ; PN10, 16, 25, 40 (LT or DEMM) • Type C1 ; PN50, 110 (LT or DEMM)																	1	5	
																	1	6	
																	1	7	
																	1	8	
																	1	9	
																	2	0	
																	2	1	
																	2	2	
																	2	3	
																	2	4	
TRIM																Digit	9		
																	Metal seat (A453Gr660)	Soft seat (PTFE Glas)	seat bore
																• Cv 3,5 Lin	A	L	Ø12
																• Cv 3,0 =%	B	M	
																• Cv 2 Lin	C	N	
																• Cv 2 =%	D	O	
																• Cv 1 Lin	E	P	Ø7
																• Cv 1 =%	F	Q	
																• Cv 0,5 Lin	G	R	
																• Cv 0,25 Lin	H	S	
																• Cv 0,1 Lin	I	T	Ø4
																• Cv 0,03 Lin	J	U	
																• Cv 0,01 Lin	K	V	
BODY MATERIAL & PRESSURE CLASS				Digit	6														
A105					316L														
• Class 300	A		• Class 300	S															
• Class 150	B		• Class 150	T															
• Class 600	C		• Class 600	U															
• PN 16	E		• PN 16	W															
• PN 40	H		• PN 40	Z															
• PN 100	K		• PN 100	R															
PACKING				Digit	10														
	Material	Security O-Ring:	w/o	NBR	VITON														
• Standard	Preformed braided PTFE w.Kevlar	-100°C ... +150°C	A	I	Q														
• Extrem temp. (NBR) -30...+110°C (Viton) -60...+150°C	Expanded Graphite preformed (BAM for oxygen)	-200°C ... +430°C	B	(J)	(R)														
	Exp. Graphit + corrosion inhibitor	-200°C ... +430°C	C	(K)	(S)														
	Exp. Graphit + cor. Inhi. Low sulfure	-200°C ... +430°C	D	(L)	(T)														
• Oxygen/Food	Preformed pure braided PTFE (BAM, FMFA, WRC)	-200°C ... +300°C	E	M	U														
• O2 fire-safe	Pref. pure br. PTFE w. fire-safe graphit ring	-200°C ... +300°C	F	N	V														



EPSY ^{Plus}					Body material	connections			Trim	Packing		Actuator	Positioner & switches		Solenoid valve		Pressure Reg & Piping	
Threaded type 1/2" - 1"																		
Valve model-Nr.					6	7	8	9	10	11	12	13	14	15	16	17	18	
4	1	3	5	7						-								
(For actuator and accessories, see separate datasheet)																		

STANDARD FEATURES

- Body Material:
 - forged body carbon steel A105
 - forged body stainless steel 316L
- Temp. range carbon steel : -10°C ... 150°C
- Temp. range stainless steel : -30°C ... 250°C
- Mounting position: any
- Standard packing compression set
- Thread NPT-F 1" tooled in the body
- Thread reduction nipple for NPT < 1" (or optional size)

OPTIONAL FEATURES

- Other Cv values on special order
- Other connection threads on special order
- Live loaded packing compression set
- Packing with security O-Ring (NBR or Viton)

MATERIALS

- Plug stem: 316L
- Plug head: A453 Gr.660
- Seat: 316L (or PTFE for Class VI)
- Bolting: stainless steel
- Packing flang: 316L
- Body gaskets: graphite
- Spacers and guides: 316L
- Thread reduction: 316L (for 1/2" - 3/4" and optional)

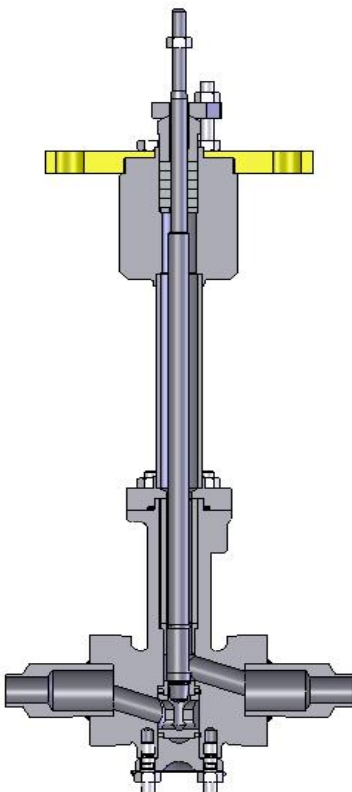
BODY MATERIAL & PRESSURE CLASS					Digit	6
A105			A316L			
• Class 300	A		• Class 300	S		
• Class 150	B		• Class 150	T		
• Class 600	C		• Class 600	U		
• PN 16	E		• PN 16	W		
• PN 40	H		• PN 40	Z		

Thread size	Digit	7	8
NPT-F	• 1/2" (reduction nipple)	0	1
	• 3/4" (reduction nipple)	0	2
	• 1" (tooled in the body)	0	3

TRIM			Digit	9
	Metal seat (A453Gr660)	Soft seat (PTFE Glas)	seat bore	
• Cv 3,5 Lin	A	L	Ø12	
• Cv 3,0 =%	B	M		
• Cv 2 Lin	C	N		
• Cv 2 =%	D	O		
• Cv 1 Lin	E	P	Ø7	
• Cv 1 =%	F	Q		
• Cv 0,5 Lin	G	R	Ø4	
• Cv 0,25 Lin	H	S		
• Cv 0,1 Lin	I	T		
• Cv 0,03 Lin	J	U		
• Cv 0,01 Lin	K	V		

PACKING

				Digit	10
	Material	Security O-Ring:	w/o	NBR	VITON
• Standard	Preformed braided PTFE w.Kevlar	-100°C ... +150°C	A	I	Q
• Extrem temp. (NBR) -30...+110°C (Viton) -60...+150°C	Expanded Graphite preformed (BAM for oxygen)	-200°C ... +430°C	B	(J)	(R)
	Exp. Graphit + corrosion inhibitor	-200°C ... +430°C	C	(K)	(S)
	Exp. Graphit + cor. Inhi. Low sulfure	-200°C ... +430°C	D	(L)	(T)
• Oxygen/Food	Preformed pure braided PTFE (BAM, FMFA, WRC)	-200°C ... +300°C	E	M	U
• O2 fire-safe	Pref. pure br. PTFE w. fire-safe graphit ring	-200°C ... +300°C	F	N	V

	EPSY^{Plus}					Body material	connections	Trim	Packing		Actuator	Positioner & switches	Solenoid valve	Pressure Reg & Piping				
	Cryogenic type																	
	Valve model-Nr.					6	7	8	9	10	11	12	13	14	15	16	17	18
	4	1	1	1	8							-						

(For actuator and accessories, see separate datasheet)

STANDARD FEATURES

- Body Material: 316L
- Temperature range : -196°C...150°C
- Cryogenic extension lenght 350mm
- Mounting position: slanting maximal 65° from vertical
- Valve can be mounted in non-vacuum cold box
- Standard packing compression set

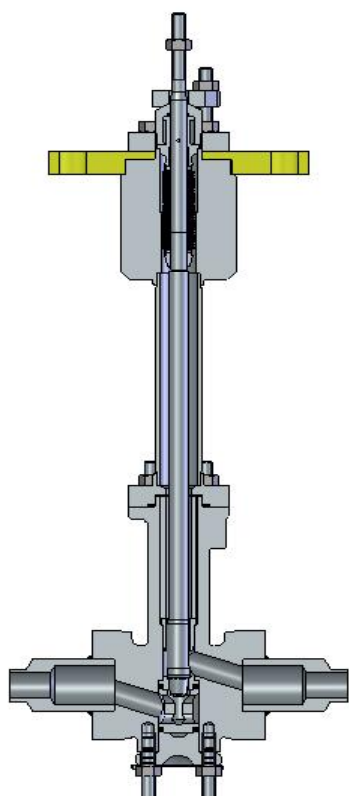
BODY MATERIAL & PRESSURE CLASS												Digit	6
316L	• Class 300 • Class 150 • Class 600 • PN 16 • PN 40 • PN 100												S
													T
													U
													W
													Z
													R

BUTT WELD CONNECTIONS												Digit	7	8
ANSI B16.25	• Ø21,3x1,65 - 1/2" Sch 5S • Ø21,3x2,11 - 1/2" Sch 10S • Ø21,3x2,77 - 1/2" Sch 40S • Ø26,7x1,65 - 3/4" Sch 5S • Ø26,7x2,11 - 3/4" Sch 10S • Ø26,7x2,87 - 3/4" Sch 40S • Ø33,4x1,65 - 1" Sch 5S • Ø33,4x2,77 - 1" Sch 10S • Ø33,4x3,38 - 1" Sch 40S												0	1
													0	2
													0	3
													0	4
													0	5
													0	6
													0	7
													0	8
													0	9

TRIM												Digit	9
		Metal seat (A453Gr660)		Soft seat (PTFE Glas)		seat bore							
• Cv 3,5 Lin		A		L		Ø12							
• Cv 3,0 =%		B		M									
• Cv 2 Lin		C		N									
• Cv 2 =%		D		O									
• Cv 1 Lin		E		P		Ø7							
• Cv 1 =%		F		Q									
• Cv 0,5 Lin		G		R		Ø4							
• Cv 0,25 Lin		H		S									
• Cv 0,1 Lin		I		T									
• Cv 0,03 Lin		J		U									
• Cv 0,01 Lin		K		V									

PACKING
() = limited T°

Material	Security O-Ring:	w/o	NBR	VITON	
• Standard	Preformed braided PTFE w.Kevlar	-100°C ... +150°C	A	I	Q
• Extrem temp. (NBR) -30...+110°C (Viton) -60... +150°C	Expanded Graphite preformed (BAM for oxygen)	-200°C ... +430°C	B	(J)	(R)
	Exp. Graphit + corrosion inhibitor	-200°C ... +430°C	C	(K)	(S)
	Exp. Graphit + cor. Inhi. Low sulfure	-200°C ... +430°C	D	(L)	(T)
• Oxygen/Food	Preformed pure braided PTFE (BAM, FMPPA, WRC)	-200°C ... +300°C	E	M	U
• O2 fire-safe	Pref. pure br. PTFE w. fire-safe graphit ring	-200°C ... +300°C	F	N	V


EPSY^{Plus}
**Cryogenic
Bellows
sealed**

Valve model-Nr.	6	7	8	9	10	11	12	13	14	15	16	17	18
4 1 1 2 0						-							

(For actuator and accessories, see separate datasheet)

STANDARD FEATURES

- Body Material: 316L
- Temperature range : -196°C...150°C
- Cryogenic extension length 350mm
- Mounting position: slanting maximal 65° from vertical
- Valve can be mounted in non-vacuum cold box
- Standard packing compression set
- Bellows sealed up to 70bar of service pressure

BODY MATERIAL & PRESSURE CLASS		Digit	6
316L	• Class 300 (bellows max 70bar)		S
	• Class 150		T
	• Class 600 (bellows max 70bar)		U
	• PN 16		W
	• PN 40		Z
	• PN 100		R

BUTT WELD CONNECTIONS		Digit	7	8
ANSI B16.25	• Ø21,3x1,65 - 1/2" Sch 5S		0	1
	• Ø21,3x2,11 - 1/2" Sch 10S		0	2
	• Ø21,3x2,77 - 1/2" Sch 40S		0	3
	• Ø26,7x1,65 - 3/4" Sch 5S		0	4
	• Ø26,7x2,11 - 3/4" Sch 10S		0	5
	• Ø26,7x2,87 - 3/4" Sch 40S		0	6
	• Ø33,4x1,65 - 1" Sch 5S		0	7
	• Ø33,4x2,77 - 1" Sch 10S		0	8
	• Ø33,4x3,38 - 1" Sch 40S		0	9

TRIM		Digit	9
	Metal seat (A453Gr660)	Soft seat (PTFE Glas)	seat bore
• Cv 3,5 Lin	A	L	Ø12
• Cv 3,0 =%	B	M	
• Cv 2 Lin	C	N	
• Cv 2 =%	D	O	
• Cv 1 Lin	E	P	Ø7
• Cv 1 =%	F	Q	
• Cv 0,5 Lin	G	R	Ø4
• Cv 0,25 Lin	H	S	
• Cv 0,1 Lin	I	T	
• Cv 0,03 Lin	J	U	
• Cv 0,01 Lin	K	V	

OPTIONAL FEATURES

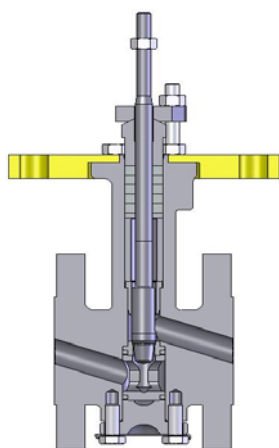
- Other usual Butt Weld connections (DIN, ISO, etc) available without added price
- Other extension lengths on special order
- Inlet and Outlet connections in different size
- Other Cv values on special order
- Live loaded packing compression set
- Packing with security O-Ring (NBR or Viton)

MATERIALS

- Plug stem: 316L
- Plug head: A453 Gr.660
- Seat: 316L (or PTFE for Class VI)
- Extension gasket: metallic C-ring
- Bolting: stainless steel
- Packing flang: 316L
- Body gaskets: graphite
- Spacers and guides: 316L

PACKING

		Digit	10
() = limited T°	Material	Security O-Ring:	w/o NBR VITON
• Standard	Preformed braided PTFE w.Kevlar	-100°C ... +150°C	A I Q
• Extrem temp.	Expanded Graphite preformed (BAM for oxygen)	-200°C ... +430°C	B (J) (R)
(NBR) -30...+110°C	Exp. Graphit + corrosion inhibitor	-200°C ... +430°C	C (K) (S)
(Viton) -60...+150°C	Exp. Graphit + cor. Inhi. Low sulfure	-200°C ... +430°C	D (L) (T)
• Oxygen/Food	Preformed pure braided PTFE (BAM, FMFA, WRC)	-200°C ... +300°C	E M U
• O2 fire-safe	Pref. pure br. PTFE w. fire-safe graphit ring	-200°C ... +300°C	F N V



EPSY ^{Plus}					Body material	connections		Trim	Packing		Actuator	Positioner & switches		Solenoid valve		Pressure Reg & Piping	
Integral flange type 1" / DN25																	
Valve model-Nr.					6	7	8	9	10	11	12	13	14	15	16	17	18
4	1	3	6	0						-							
(For actuator and accessories, see separate datasheet)																	

STANDARD FEATURES

- Body Material:
 - Carbon steel casting A216 WCC
 - Stainless steel Casting A 351 CF 3 M
- Pressure class limited to PN50 / Class 300
- Temp. range carbon steel : -10°C ... 250°C
- Temp. range stainless steel : -30°C ... 250°C
- Mounting position: any
- Standard packing compression set

BODY MATERIAL & PRESSURE CLASS										Digit	6
A216 WCC					A351 CF 3M						
• Class 300					• Class 300						S
• Class 150					• Class 150						T
• PN 16					• PN 16						W
• PN 40					• PN 40						Z

OPTIONAL FEATURES

- Other Cv values on special order
- Live loaded packing compression set
- Packing with security O-Ring (NBR or Viton)

FLANGE SIZE										Digit	7	8
ISO 7005-1 (= ISO PN)												
• Type B2 ; PN10, 16, 25, 40 (RF)											0	2
• Type D ; PN10, 16, 25, 40 (LG ou DEFF)											0	7

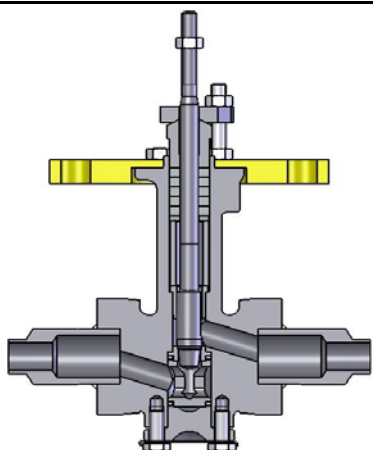
MATERIALS

- Plug stem: 316L
- Plug head: A453 Gr.660
- Seat: 316L (or PTFE for Class VI)
- Extension gasket: metallic C-ring
- Bolting: stainless steel
- Packing flang: 316L
- Body gaskets: graphite
- Spacers and guides: 316L

TRIM										Digit	9
		Metal seat (A453Gr660)	Soft seat (PTFE Glas)	seat bore							
●	Cv 3,5 Lin	A	L	Ø12							
●	Cv 3,0 =%	B	M								
●	Cv 2 Lin	C	N								
●	Cv 2 =%	D	O								
●	Cv 1 Lin	E	P	Ø7							
●	Cv 1 =%	F	Q								
●	Cv 0,5 Lin	G	R								
●	Cv 0,25 Lin	H	S								
●	Cv 0,1 Lin	I	T	Ø4							
●	Cv 0,03 Lin	J	U								
●	Cv 0,01 Lin	K	V								

PACKING

PACKING				Digit	10
	Material	Security O-Ring:	w/o	NBR	VITON
• Standard	Preformed braided PTFE w.Kevlar	-100°C ... +150°C	A	I	Q
• Extrem temp. (NBR) -30...+110°C (Viton) -60... +150°C	Expanded Graphite preformed (BAM for oxygen)	-200°C ... +430°C	B	(J)	(R)
	Exp. Graphit + corrosion inhibitor	-200°C ... +430°C	C	(K)	(S)
	Exp. Graphit + cor. Inhi. Low sulfure	-200°C ... +430°C	D	(L)	(T)
• Oxygen/Food	Preformed pure braided PTFE (BAM, FMPPA, WRC)	-200°C ... +300°C	E	M	U
• O2 fire-safe	Pref. pure br. PTFE w. fire-safe graphit ring	-200°C ... +300°C	F	N	V



EPST ^{Plus}					Body material	connections		Trim	Packing		Actuator	Positioner & switches		Solenoid valve		Pressure Reg & Piping	
Butt Weld Type																	
Valve model-Nr.					6	7	8	9	10	11	12	13	14	15	16	17	18
4	1	4	4	3						-							
(For actuator and accessories, see separate datasheet)																	

STANDARD FEATURES

- Stroke 6mm
- forged body stainless steel 316L
- Temperature range : -30°C...+250°C
- Standard packing compression set

OPTIONAL FEATURES

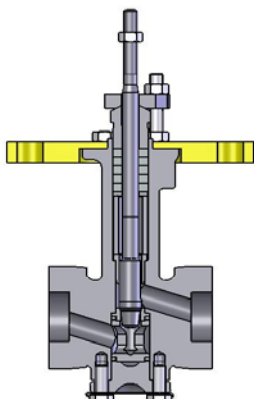
- Other usual Butt Weld connections (DIN, ISO, etc) available without added price
- Inlet and Outlet connections in different size available on special order
- Other Cv values on special order

MATERIALS

- Plug stem: 316L
- Plug head: A453 Gr.660
- Seat: 316L (or PTFE for Class VI)
- Bolting: stainless steel
- Packing flang: 316L
- Body gaskets: graphite
- Spacers and guides: 316L

BODY MATERIAL & PRESSURE CLASS		Digit	6	
316L	• Class 300 • Class 150 • Class 600 • PN 16 • PN 40 • PN 100		S	
			T	
			U	
			W	
			Z	
			R	
BUTT WELD CONNECTIONS		Digit	7	8
ANSI B16.25	• Ø21,3x1,65 - 1/2" Sch 5S • Ø21,3x2,11 - 1/2" Sch 10S • Ø21,3x2,77 - 1/2" Sch 40S • Ø26,7x1,65 - 3/4" Sch 5S • Ø26,7x2,11 - 3/4" Sch 10S • Ø26,7x2,87 - 3/4" Sch 40S • Ø33,4x1,65 - 1" Sch 5S • Ø33,4x2,77 - 1" Sch 10S • Ø33,4x3,38 - 1" Sch 40S		0	1
			0	2
			0	3
			0	4
			0	5
			0	6
			0	7
			0	8
			0	9
TRIM		Digit	9	
• Cv 3.5 Lin • Cv 3,0 =% • Cv 2 Lin • Cv 2 =% • Cv 1 Lin • Cv 1 =% • Cv 0,5 Lin • Cv 0,25 Lin • Cv 0,1 Lin • Cv 0,03 Lin • Cv 0,01 Lin	Metal seat (A453Gr660)	Soft seat (PTFE Glas)	seat bore	
	A	L	Ø12	
	B	M		
	C	N		
	D	O		
	E	P	Ø7	
	F	Q		
	G	R		
	H	S	Ø4	
	I	T		
	J	U		
	K	V		

PACKING		Digit	10
() = limited T°	Material	Security O-Ring:	w/o NBR VITON
• Standard	Preformed braided PTFE w.Kevlar	-100°C ... +150°C	A I Q
• Extrem temp. (NBR) -30...+110°C	Expanded Graphite preformed (BAM for oxygen)	-200°C ... +430°C	B (J) (R)
(Viton) -60... +150°C	Exp. Graphit + corrosion inhibitor	-200°C ... +430°C	C (K) (S)
	Exp. Graphit + cor. Inhi. Low sulfure	-200°C ... +430°C	D (L) (T)
• Oxygen/Food	Preformed pure braided PTFE (BAM, FMPA, WRC)	-200°C ... +300°C	E M U
• O2 fire-safe	Pref. pure br. PTFE w. fire-safe graphit ring	-200°C ... +300°C	F N V

	EPSY Flowserve																	
	Socket Weld Type					Body material	connections			Trim	Packing		Actuator	Positioner & switches		Solenoid valve	Pressure Reg & Piping	
	Valve model-Nr.					6	7	8	9	10	11	12	13	14	15	16	17	18
	4	1	9	7	8						-							
	(For actuator and accessories, see separate datasheet)																	

STANDARD FEATURES

- Body Material:
 - forged body carbon steel A105
 - forged body stainless steel 316L
- Temp. range carbon steel : -10°C ... 150°C
- Temp. range stainless steel : -30°C ... 250°C
- Mounting position: any
- Standard packing compression set
- Other Socket dimensions possible on request

OPTIONAL FEATURES

- Other Cv values on special order
- Other connection threads on special order
- Live loaded packing compression set
- Packing with security O-Ring (NBR or Viton)

MATERIALS

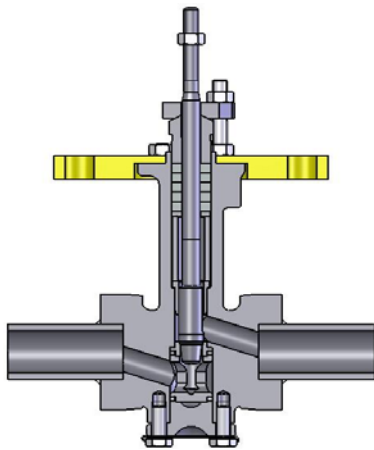
- Plug stem: 316L
- Plug head: A453 Gr.660
- Seat: 316L (or PTFE for Class VI)
- Bolting: stainless steel
- Packing flang: 316L
- Body gaskets: graphite
- Spacers and guides: 316L
- Thread reduction: 316L (for 1/2" - 3/4" and optional)

BODY MATERIAL & PRESSURE CLASS		Digit	6
A105		A316L	
• Class 300	A	• Class 300	S
• Class 150	B	• Class 150	T
• Class 600	C	• Class 600	U
• PN 16	E	• PN 16	W
• PN 40	H	• PN 40	Z

SOCKET WELD CONNECTIONS		Digit	7	8
ANSI B16.11	• Ø21,7 - 1/2"		0	1
	• Ø27,05 - 3/4"		0	2
	• Ø33,8 - 1"		0	3
NF E 29.031	• Ø21,8 - 1/2"		0	4
	• Ø27,4 - 3/4"		0	5
	• Ø34,2 - 1"		0	6

TRIM		Digit	9
	Metal seat (A453Gr660)	Soft seat (PTFE Glas)	seat bore
• Cv 3,5 Lin	A	L	Ø12
• Cv 3,0 =%	B	M	
• Cv 2 Lin	C	N	
• Cv 2 =%	D	O	
• Cv 1 Lin	E	P	Ø7
• Cv 1 =%	F	Q	
• Cv 0,5 Lin	G	R	
• Cv 0,25 Lin	H	S	Ø4
• Cv 0,1 Lin	I	T	
• Cv 0,03 Lin	J	U	
• Cv 0,01 Lin	K	V	

PACKING					Digit	10
	Material	Security O-Ring:	w/o	NBR	VITON	
• Standard	Preformed braided PTFE w.Kevlar	-100°C ... +150°C	A	I	Q	
• Extrem temp. (NBR) -30...+110°C (Viton) -60... +150°C	Expanded Graphite preformed (BAM for oxygen)	-200°C ... +430°C	B	(J)	(R)	
	Exp. Graphit + corrosion inhibitor	-200°C ... +430°C	C	(K)	(S)	
	Exp. Graphit + cor. Inhi. Low sulfure	-200°C ... +430°C	D	(L)	(T)	
• Oxygen/Food	Preformed pure braided PTFE (BAM, FMPA, WRC)	-200°C ... +300°C	E	M	U	
• O2 fire-safe	Pref. pure br. PTFE w. fire-safe graphit ring	-200°C ... +300°C	F	N	V	

	EPSS Flowserve					Body material	connections	Trim	Packing		Actuator	Positioner & switches	Solenoid valve	Pressure Reg & Piping				
	Orbital Weld Type																	
	Valve model-Nr.					6	7	8	9	10	11	12	13	14	15	16	17	18
	4	1	9	7	9							-						
(For actuator and accessories, see separate datasheet)																		

STANDARD FEATURES - Stroke 6mm - forged body stainless steel 316L - Temperature range : -30°C...+250°C - Standard packing compression set - Standard Face to Face L = 254mm ± 2mm - Pipe end is straight without burr	BODY MATERIAL & PRESSURE CLASS										Digit	6				
	316L - Class 300 - Class 150 - Class 600 - PN 16 - PN 40 - PN 100											S				
												T				
												U				
												W				
												Z				
												R				
OPTIONAL FEATURES - Other usual Butt Weld connections (DIN, ISO, etc) available without added price - Inlet and Outlet connections in different size available on special order - Other Cv values on special order - Other Face to Face dimensions on request	PIPE CONNECTIONS										Digit	7	8			
	- Ø21,3x1,65 - 1/2" Sch 5S - Ø21,3x2,11 - 1/2" Sch 10S - Ø21,3x2,77 - 1/2" Sch 40S - Ø26,7x1,65 - 3/4" Sch 5S - Ø26,7x2,11 - 3/4" Sch 10S - Ø26,7x2,87 - 3/4" Sch 40S - Ø33,4x1,65 - 1" Sch 5S - Ø33,4x2,77 - 1" Sch 10S - Ø33,4x3,38 - 1" Sch 40S - Ø33,4x4.55 - 1" Sch 80S										0	1				
											0	2				
											0	3				
											0	4				
											0	5				
											0	6				
											0	7				
											0	8				
											0	9				
1											0					
MATERIALS - Plug stem: 316L - Plug head: A453 Gr.660 - Seat: 316L (or PTFE for Class VI) - Bolting: stainless steel - Packing flang: 316L - Body gaskets: graphite - Spacers and guides: 316L	TRIM										Digit	9				
	- Cv 3.5 Lin - Cv 3,0 =% - Cv 2 Lin - Cv 2 =% - Cv 1 Lin - Cv 1 =% - Cv 0,5 Lin - Cv 0,25 Lin - Cv 0,1 Lin - Cv 0,03 Lin - Cv 0,01 Lin										Metal seat (A453Gr660)		Soft seat (PTFE Glas)		seat bore	
											A		L			
	B		M		Ø12											
	C		N													
	D		O													
	E		P				Ø7									
	F		Q													
	G		R													
	H		S													
	I		T		Ø4											
	J		U													
	K		V													

PACKING					Digit	10	
() = limited T°		Material	Security O-Ring:		w/o	NBR	VITON
• Standard		Preformed braided PTFE w.Kevlar	-100°C ... +150°C		A	I	Q
• Extrem temp.		Expanded Graphite preformed (BAM for oxygen)	-200°C ... +430°C		B	(J)	(R)
(NBR) -30...+110°C		Exp. Graphit + corrosion inhibitor	-200°C ... +430°C		C	(K)	(S)
(Viton) -60... +150°C		Exp. Graphit + cor. Inhi. Low sulfure	-200°C ... +430°C		D	(L)	(T)
• Oxygen/Food		Preformed pure braided PTFE (BAM, FMPPA, WRC)	-200°C ... +300°C		E	M	U
• O2 fire-safe		Pref. pure br. PTFE w. fire-safe graphit ring	-200°C ... +300°C		F	N	V