

Type SW / BW

Plug valves with weld-ends

- weld-ends
- 2-way up to 4 way

DN 15 - 600 / PN 10 - 40
NPS ½ - 24 / Class 150 - 300
(higher pressure type HDS / RO)

Range of application:
-60 < T < 230/280°C
vacuum-capable

Design characteristics

- easy accessible adjustment of the plug
- vacuum-capable
- PED 2014/68/EU
- Fire-Safe - API 607 / ISO 10497
- mounting-flange for actuators acc. to ISO 5211
- low emission rate according TA-Luft & EPA 21
- conformity according SIL 3

Options

- heating jacket
- flushing device
- FDA compliant
- painting
- oil- and grease-free assembling

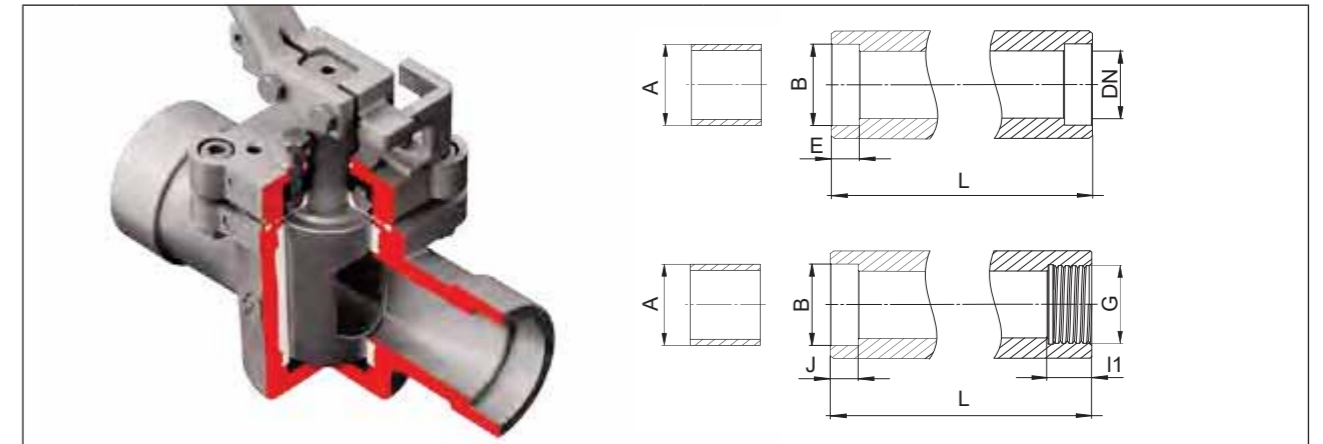
Type BW



Type SW

Type SW

with socket-weld-ends, technical information



ASME B16.10 / ISO 5211	DN	NPS	L [mm]		A ¹⁾		B (min / max)		J (min)		I1	G
			EN	ASME	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	ISO 7-1, EN 10226-1
	10	¾	165	165	17,1	0,675	17,6 / 18,0	0,690 / 0,710	9,5	0,38	22	Rp¾
	15	½	165	165	21,3	0,840	21,8 / 22,2	0,855 / 0,875	9,5	0,38	22	Rp½
	20	¾	165	165	26,7	1,050	27,2 / 27,6	1,065 / 1,085	12,5	0,5	22	Rp¾
	25	1	165	165	33,4	1,315	33,9 / 34,3	1,330 / 1,350	12,5	0,5	22	Rp1
	32	1¼	180	178	42,2	1,660	42,7 / 43,1	1,675 / 1,695	12,5	0,5	22	Rp1¼
	40	1½	200	190	48,3	1,900	48,8 / 49,2	1,915 / 1,925	12,5	0,5	22	Rp1½
	50	2	230	216	60,3	2,375	61,2 / 61,7	2,406 / 2,426	16	0,62	23	Rp2
	65	2½	290	241	73,0	2,875	73,9 / 74,4	2,906 / 2,921	16	0,62	24	Rp2½
	80	3	305	305	88,9	3,500	89,8 / 90,3	3,535 / 3,560	16	0,62	24	Rp3
	100	4	350	356	114,3	4,500	115,2 / 115,7	4,545 / 4,570	19	0,75	-	-

¹⁾ Tolerance acc. ASTM A530

In case of order ...

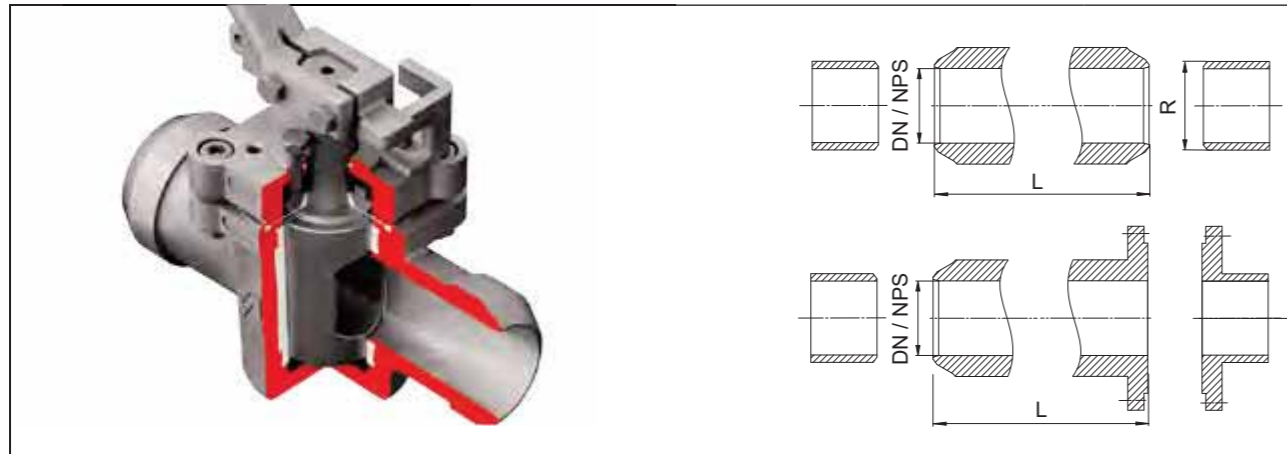
- please state external and internal dimensions of pipe
- Other connection sizes on request
- during welding the temperature at the centre of the PTFE-sleeved plug valve must not exceed 200°C. Cooling with a damp cloth is recommended.

Order Example: EM-2-25/R1"-SWG-PN40-1.1138

EM = weld ends, 2 = two-way, 25/R1" = size 25 with R1" female threads, SWG = type socket welding with threaded connection, PN 25 = rating 25, 1.1138 = body material

Type BW

with butt-weld-ends, technical information



EN 12627 / EN 12982 / ASME B16.10 / B16.26	DN	NPS	L [mm]		R [mm] *		
			EN	ASME	EN	ANSI	
	10	3/8	165	130	18	18	
	15	1/2	165	140	22	22	
	20	3/4	165	152	28	28	
	25	1	165	165	35	35	
	32	1 1/4	180	178	44	44	
	40	1 1/2	200	190	50	50	
	50	2	230	216	62	62	
	65	2 1/2	290	241	77	77	
	80	3	310	283	91	91	
	100	4	350	305	117	117	
	125	5	325	381	144	144	
	150	6	432	403	172	172	
	200	8	508	419	223	223	
	250	10	450	450	278	278	
	300	12	500	500	329	329	
	350	14	550	550	362	362	
	400	16	600	600	413	413	
	450	18	650	650	464	464	
	500	20	700	700	516	516	
	600	24	800	800	619	619	

*) Dimensions of column L / R acc to: DIN EN 12627 / EN 12982 (max. PN 100), ASME B16.10 / B16.25 Schedule No. 40 (max. 600 lbs)

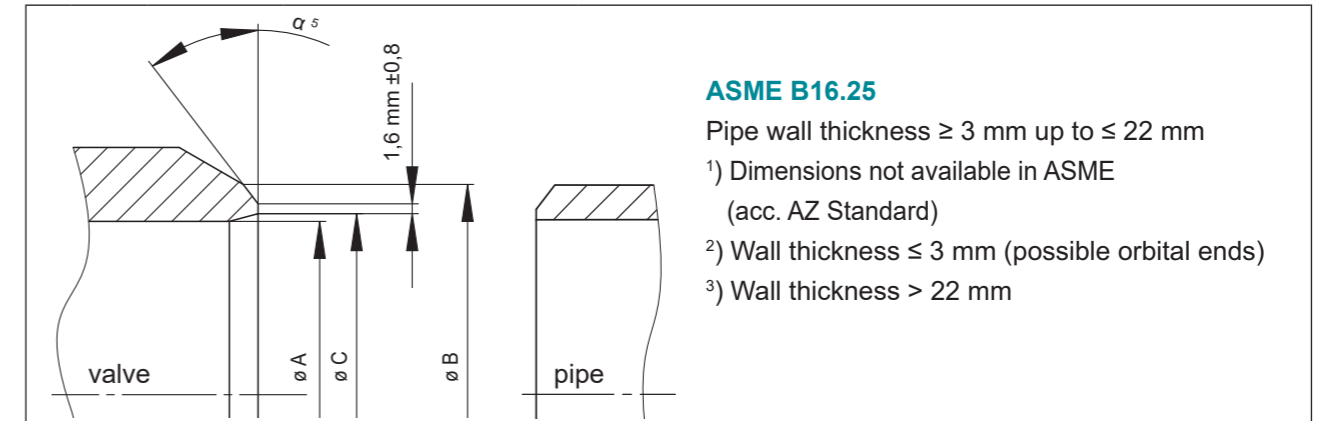
Type AF-2-BWF-HM

valve with weld- and flange ends, heating jacket and T-wrench



Order Example: A-2-25-BW-PN 25-1.4408

A = weld ends, 2 = two-way, 25 = size 25, BW = type butt-welding ends, PN 25 = rating 25, 1.4408 = body material

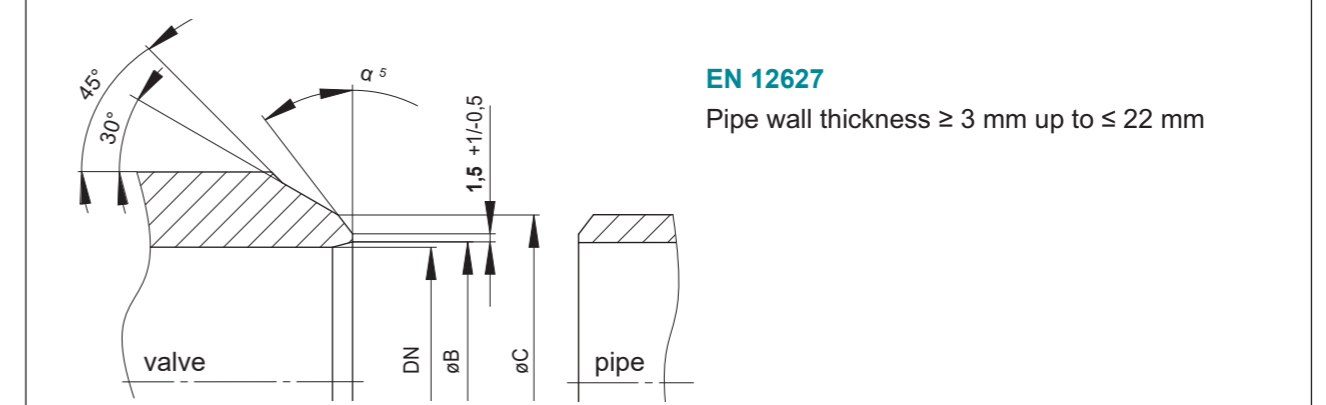


ASME B16.25

Pipe wall thickness ≥ 3 mm up to ≤ 22 mm

- 1) Dimensions not available in ASME (acc. AZ Standard)
- 2) Wall thickness ≤ 3 mm (possible orbital ends)
- 3) Wall thickness > 22 mm

ASME B16.25	Schedule 40				Schedule 60				Schedule 80				Schedule STD			
	NPS	øA	øB	øC	NPS	øA	øB	øC	NPS	øA	øB	øC	NPS	øA	øB	øC
	1/2 ²⁾	15	23 ¹⁾	16 ¹⁾	1/2				1/2	14	23 ¹⁾	14 ¹⁾	1/2			
	3/4 ²⁾	20	28 ¹⁾	21 ¹⁾	3/4				3/4	20	28 ¹⁾	25 ¹⁾	3/4			
	1	25	35 ¹⁾	27 ¹⁾	1				1	25	35 ¹⁾	25 ¹⁾	1			
	1 1/2	40	55 ¹⁾	41 ¹⁾	1 1/2				1 1/2	38	55 ¹⁾	38 ¹⁾	1 1/2			
	2	50	62 ¹⁾	52,5 ¹⁾	2				2	50	62 ¹⁾	50 ¹⁾	2			
	3	80	91	72	3				3	72	91	73,5	3			
	4	100	117	102	4				4	95	117	97	4			
	6	150	172	154	6				6	145	172	146,5	6			
	8	200	223	203	8	195	223	198,5	8	190	223	193,5	8			
	10	250	278	254,5	10	245	278	247,5	10	240	278	243	10			
	12	300	329	303	12	290	329	295	12	287	329	289	12	300	329	305
	14	330	362	333,5	14	325	362	325,5	14	315	362	317,5	14	335	362	336,5
	16	378	413	381	16	370	413	373	16	360	413	363,5	16	385	413	387,5
	18	425	461	428,5	18	415	464	419	18 ³⁾				18	435	464	438
	20	475	516	478	20	465	516	467	20 ³⁾				20	485	516	489
	24				24	³⁾	³⁾	³⁾	24	³⁾	³⁾	³⁾	24			



EN 12627

Pipe wall thickness ≥ 3 mm up to ≤ 22 mm

EN 12627	DN	øC [mm]	tolerance [mm]	tolerance for øB ⁴⁾ [mm]	DN	øC [mm]	tolerance [mm]	tolerance for øB ⁴⁾ [mm]
		10	18	+2,5 / -1	+1 / -1	125	144	+4 / -2,5
	15	22			150	172		
	20	28	+2,5 / -1,5	+1 / -1	200	223	+4 / -2,5	+1 / -1
	25	35			250	278		
	32	44			300	329		
	40	50	+2,5 / -2	+1 / -1	350	362	+4 / -2,5	+2 / -2
	50	62			400	413		
	65	78	+2,5 / -2	+1 / -1	450	464	+4 / -2,5	+2 / -2
	80	91			500	516		
	100	117	+2,5 / -2,5	+1 / -1	600	619	+4 / -2,5	+3 / -2

4) I.D. "B" of the welding end must correspond to the I.D. of the pipe to which it is welded. Tolerance of "øC" according to table.

5) $\alpha = 30^\circ$ acc. EN 1092-1, $37,5^\circ$ acc. ASME B16.25