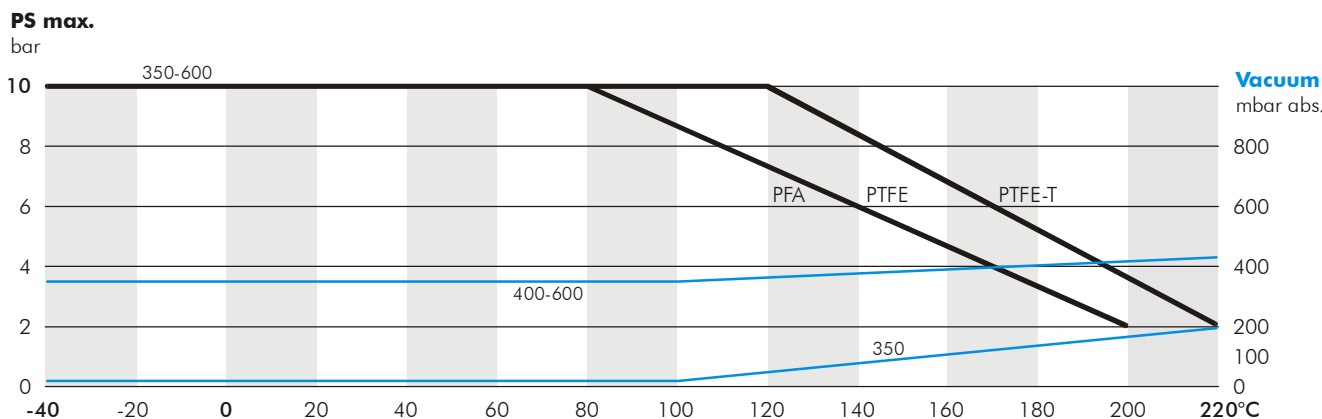
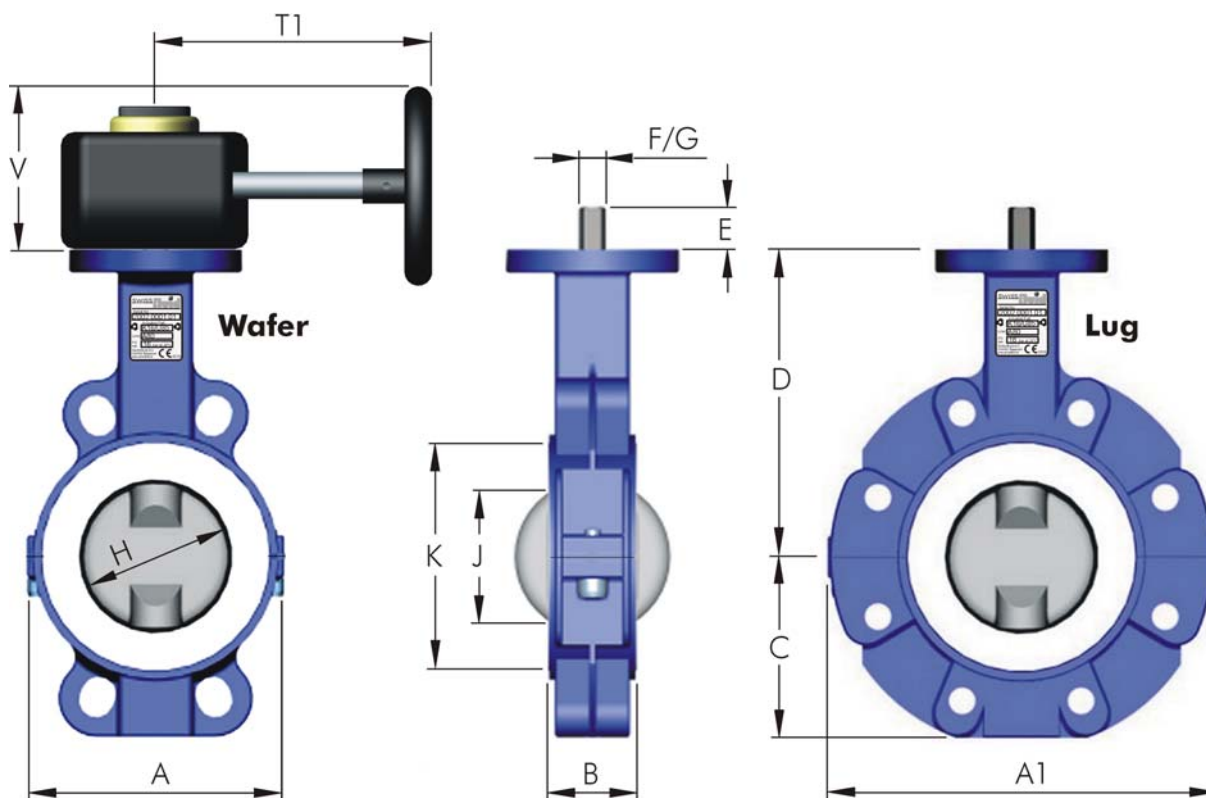




Pressure-/Temperature Diagram



Dimensions in mm



Size DN	A	A1	B	C	D	E	F	G ¹⁾	H	J	K	ISO	T	T1	U	V
350/14"	416	530	92 ²⁾	254	309	40	40	27	340	328	409	F12	-	268	-	168
400/16"	462	596	102	289	339	40	40	27	400	387	459	F12	-	268	-	168
450/18"	512	630	114	308	359	50	50	14	450	436	515	F14	-	275	-	208
500/20"	566	698	127	339	390	50	50	14	500	484	569	F14	-	275	-	208
550/22"	-	758	127	370	421	50	50	14	500	484	619	F14	-	275	-	208
600/24"	668	812	154	399	449	50	50	14	600	578	669	F14	-	298	-	250

Face to face B acc. to DIN EN 558-1 Range 20 ¹⁾ DN450-600: Keyway ²⁾ Range 25, ASME B1.6.10 wide

Torque Values in Nm (in-lbs = Nm x 8.85)

Torque values for PFA-encapsulated disc and specified body liner

Size DN	350	400	450	500	600
A80 PTFE	450	600	740	900	1'200
A81 PTFE-T	495	660	815	990	1'320
A82 PTFE-AS	450	600	740	900	1'200
max. allowable	1'800	1'800	2'000	2'000	2'000

- For liner resp. disc encapsulation never use for both the same material, otherwise considerable increase of torque values must be expected!
- Stated values to be break-away torques without any consideration of safety factors for actuators.

Weights in kg (lbs = kg x 2.2)

Figures stated for execution PTFE/PFA/bare shaft

Size DN	350	400	450	500	600
Lug -style body	85.0	98.0	124.0	132.0	224.0
Wafer -style body	51.0	63.0	76.0	88.0	132.0
Gearbox GG25	8.5	8.5	17.5	17.5	18.0

Weights for pneumatic actuators acc. to separate data sheet

Flow Rate Values Cv usg/min

Estimated values at corresponding opening angle of valve disc

Size DN	350	400	450	500	600
20°	406	592	771	1'032	1'473
30°	766	1'143	1'456	1'879	2'494
40°	1'369	1'717	2'587	3'457	4'849
50°	2'088	2'842	4'466	6'206	8'607
60°	3'341	4'907	7'250	9'454	13'166
70°	5'278	7'598	10'672	13'688	19'082
80°	8'329	10'730	14'210	18'050	24'592
90°	10'162	13'166	17'284	20'880	28'420

Same values to be applied on Butterfly Valves SBE Series elastomer-lined

$K_v = C_v / 1.16$ $^{\circ}K = ^{\circ}C + 273$

Liquids:

$$K_v = Q \sqrt{\frac{SG}{\Delta P}}$$

Gases:

$$K_v = \frac{Q_N}{514} \sqrt{\frac{SG_N \cdot T}{\Delta p \cdot p_2}}$$

Kv (Cv)	Valve Coefficient	m ³ /h (usg/min)
Q	Flow Rate	m ³ /h (usg/min)
Q_N	Flow Rate	Nm ³ /h (usg/min)
SG	Specific Gravity	kg/dm ³ (lbs/usg)
SG_N	Specific Gravity	kg/Nm ³ (lbs/usg)
P₂	Downstream Pressure	bar (psi)
ΔP	Pressure Drop	bar (psi)
T	Temperature	°C (°K)