Safety Valves

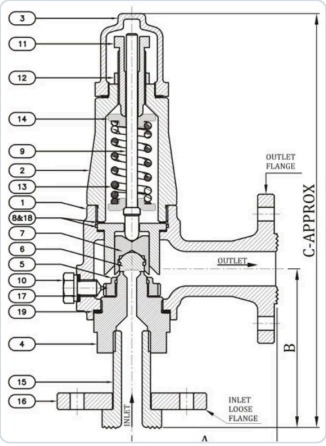
OVERPRESSURE PROTECTION

Safety valves and pressure relief valves protect equipment and people by opening automatically when system pressure exceeds a preset value, and closing again once pressure returns to a safe level. They are safety-critical devices: selection, sizing, setting and certification must be handled by qualified engineers according to the applicable code. UTC VALVES manufactures and supplies safety and relief valves against confirmed customer specifications.

Safety valve – Series SVT 20 (flanged)



Size range	15 × 25 mm (½" × 1") to 50 × 50 mm (2" × 2")
Pressure rating	Class 150 to 2500
End connection	Flanged, ASME B16.5
Seating	Metal and soft seating arrangement
Body	Investment casting; trims from certified bar stock (forged trims on request)
Versions	IBR / non-IBR (as per UTC VALVES catalogue)



Weights and dimensions are for reference only. Final data is confirmed in the quotation and approved drawings.

Dimensions & technical details (mm)

Valve size (inlet × outlet)	A ±3.0	B ±3.0	C ±3.0	Weight (kg) approx.
15 × 25	105	116	300	7.5
20 × 25	105	116	300	7.5
25 × 25	105	116	300	7.5
25 × 40	105	116	300	9
40 × 50	110	130	366	16
50 × 50	110	130	366	16

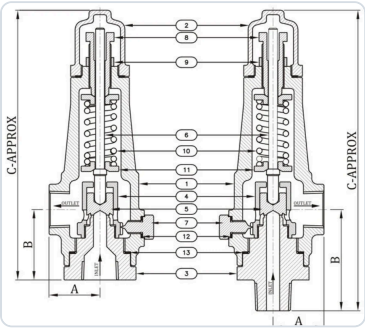
Material list

No.	Part	Material (ASTM specification)
1	Body	ASTM A 216 Gr. WCB, ASTM A 351 Gr. CF8 / CF8M / CF3 / CF3M
2	Bonnet	ASTM A 216 Gr. WCB, ASTM A 351 Gr. CF8 / CF8M / CF3 / CF3M
3	Cap	ASTM A 216 Gr. WCB, ASTM A 351 Gr. CF8 / CF8M / CF3 / CF3M
4	Nozzle	SS 410 / 304 / 304L / 316 / 316L
5	Nozzle ring	ASTM A 216 Gr. WCB, ASTM A 351 Gr. CF8 / CF8M / CF3 / CF3M
6	Disc	SS 410 / 304 / 304L / 316 / 316L
7	Disc guide	SS 410 / 304 / 304L / 316 / 316L
8	Disc holder	SS 410 / 304 / 304L / 316 / 316L
9	Stem	SS 410 / 304 / 304L / 316 / 316L
10	Lock screw	SS 410 / 304 / 304L / 316 / 316L
11	Adjusting screw	SS 410 / 304 / 304L / 316 / 316L
12	Adjusting screw nut	SS 410 / 304 / 304L / 316 / 316L
13	Setting spring	Spring Steel / CS / SS / Alloy Steel
14	Spring washer	M.S. / SS 410 / 304 / 304L / 316 / 316L
15	Collar	SS 410 / 304 / 304L / 316 / 316L
16	Loose flange	SS 410 / 304 / 304L / 316 / 316L
17	Gasket (lock screw)	CAF / Graphite / PTFE
18	Gasket (guide)	CAF / Graphite / PTFE
19	Gasket (nozzle)	CAF / Graphite / PTFE

Safety valve – Series SVT 22 (threaded)



Size range	15 × 25 mm (½" × 1") to 50 × 50 mm (2" × 2")
End connection	Threaded to ASME B1.20.1 – BSP, BSPT or NPT
Seating	Metal and soft seating arrangement
Versions	IBR / non-IBR (as per UTC VALVES catalogue)



Weights and dimensions are for reference only. Final data is confirmed in the quotation and approved drawings.

Dimensions & technical details (mm)

Valve size (inlet × outlet)	A ±3.0	B ±3.0	C ±3.0	Weight (kg) approx.
15(F) × 25(F)	46	64	245	5
20(F) × 25(F)	46	64	245	5
25(F) × 25(F)	46	64	245	5
40(F) × 50(F)	67	87	312	8
50(F) × 50(F)	67	87	312	8

Dimensions (continued)

Valve size (inlet × outlet)	A ±3.0	B ±3.0	C ±3.0	Weight (kg) approx.
15(M) × 25(F)	46	92	273	6
20(M) × 25(F)	46	92	273	6
25(M) × 25(F)	46	92	273	6
40(M) × 50(F)	67	92	318	8.5
50(M) × 50(F)	67	92	318	8.5

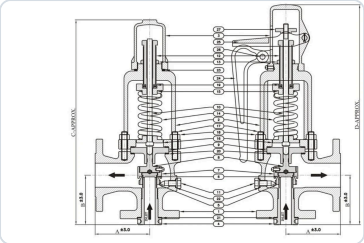
Material list

No.	Part	Material (ASTM specification)
1	Body	ASTM A 216 Gr. WCB, ASTM A 351 Gr. CF8 / CF8M / CF3 / CF3M
2	Cap	ASTM A 216 Gr. WCB, ASTM A 351 Gr. CF8 / CF8M / CF3 / CF3M
3	Nozzle	SS 410 / 304 / 304L / 316 / 316L
4	Nozzle ring	ASTM A 216 Gr. WCB, ASTM A 351 Gr. CF8 / CF8M / CF3 / CF3M
5	Disc	SS 410 / 304 / 304L / 316 / 316L
6	Stem	SS 410 / 304 / 304L / 316 / 316L
7	Lock screw	SS 410 / 304 / 304L / 316 / 316L
8	Adjusting screw	SS 410 / 304 / 304L / 316 / 316L
9	Adjusting screw nut	SS 410 / 304 / 304L / 316 / 316L
10	Setting spring	Spring Steel / CS / SS / Alloy Steel
11	Spring washer	M.S. / SS 410 / 304 / 304L / 316 / 316L
12	Gasket (lock screw)	CAF / Graphite / PTFE
13	Gasket (nozzle)	CAF / Graphite / PTFE

Safety valve – Series SV 40 (full lift, flanged)



Size range	25 × 50 mm (1" × 2") to 250 × 350 mm (10" × 14")
Pressure rating	Class 150 to 2500, Table-H and Table-E
Design standard	API 520 / API 526 / API 527; ASME B16.5 and B16.34
Arrangements	Packed lever, test gauge, bellows (for back pressure)
Versions	IBR / non-IBR (as per UTC VALVES catalogue)



Weights and dimensions are for reference only. Final data is confirmed in the quotation and approved drawings.

Dimensions & technical details (mm)

Valve size (inlet × outlet)	A ±3.0	B ±3.0	C ±3.0	D ±3.0	Weight (kg) approx.
25 × 50	115	105	430	460	20
40 × 50	120	124	460	490	23
40 × 80	124	130	530	490	30
50 × 80	124	133	540	575	36
80 × 100	162	155	590	620	50
100 × 150	229	181	830	900	149
150 × 200	240	240	990	1050	210
200 × 250	280	276	1400	1470	325
250 × 350	395	385	1600	1670	950

Material list

No.	Part	Material (ASTM specification)
1	Body	ASTM A 216 Gr. WCB, ASTM A 351 Gr. CF8 / CF8M / CF3 / CF3M
2	Bonnet (open / closed)	ASTM A 216 Gr. WCB, ASTM A 351 Gr. CF8 / CF8M / CF3 / CF3M
3	Cap (open / closed)	ASTM A 216 Gr. WCB, ASTM A 351 Gr. CF8 / CF8M / CF3 / CF3M
4	Nozzle	ASTM A 351 CA15 / CF8 / CF8M / CF3 / CF3M
5	Nozzle ring	ASTM A 351 CA15 / CF8 / CF8M / CF3 / CF3M
6	Disc	SS 410 / 304 / 304L / 316 / 316L
7	Reaction hood	ASTM A 351 CA15 / CF8 / CF8M / CF3 / CF3M
8	Disc holder	ASTM A 351 CA15 / CF8 / CF8M / CF3 / CF3M
9	Guide	ASTM A 351 CA15 / CF8 / CF8M / CF3 / CF3M
10	Stem	SS 410 / 304 / 304L / 316 / 316L
11	Lock screw	SS 410 / 304 / 304L / 316 / 316L
12	Adjusting screw	SS 410 / 304 / 304L / 316 / 316L
13	Adjusting screw nut	SS 410 / 304 / 304L / 316 / 316L
14	Setting spring	Spring Steel / Stainless Steel / Alloy Steel
15	Upper spring washer	M.S. / SS 410 / 304 / 304L / 316 / 316L
16	Lower spring washer	M.S. / SS 410 / 304 / 304L / 316 / 316L
17	Studs	B7 / B8 / B8M / L7
18	Nuts	2H / 8 / 8M / 7
19	Thrust bearing	As per standard manufacturer
20	Gasket (body)	CAF / Graphite / PTFE
21	Gasket (nozzle)	CAF / Graphite / PTFE
22	Gasket (lock screw)	CAF / Graphite / PTFE
23	Gasket (cap)	CAF / Graphite / PTFE
24	Lever	ASTM A 216 Gr. WCB, A 351 CF8, CF8M, SG Iron
25	Fork	ASTM A 216 Gr. WCB, A 351 CF8, CF8M, SG Iron
26	Lever & fork pin	M.S. / SS 304 / 316
27	Stem nut	M.S. / SS 304 / 316
28	Bellows (if required)	SS 304 / 304L / 316 / 316L / Inconel

UTC VALVES

Engineered for Flow. Built for Reliability.

Send us your enquiry

Share the valve type, size, pressure class, materials, end connections, quantity and any project specification or drawing. Our team reviews every enquiry and responds with availability and a quotation.

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