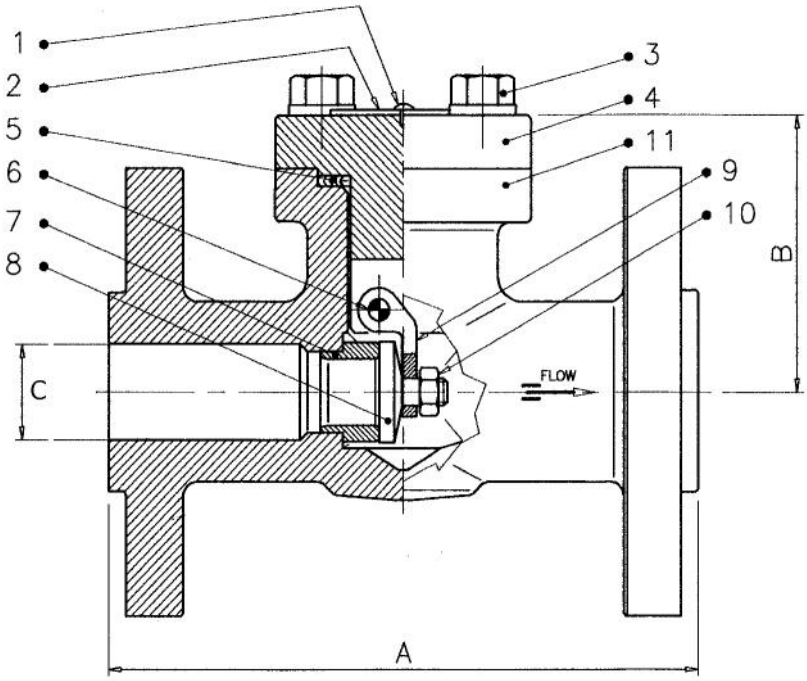
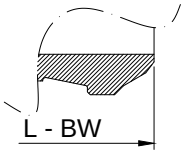
FORGED SWING CHECK VALVES

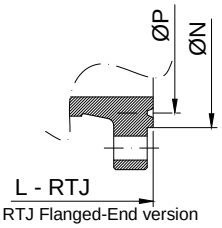
UNI PN40/100

DT-FSCV-007





BW Welded-End version



RTJ Flanged-End version

BASIC DESIGN STANDARDS

Basic Design	DIN 3352 / 3840
Flanges	DIN 2501
Rating	DIN 2401
Face to Face	DIN 3202
Bore	Full

TEST PRESSURE TO API 598 *bar*

Class	Shell (water)	Seat (water)	Seat (air)
PN40	60	48	6
PN100	150	120	6

BILL OF MATERIALS STANDARD ACCORDING TO ASTM

		Carbon Steel	Stainless Steel
No	**Part Name**	**A105/F6**	**SS316**
01	Rivet	Carbon Steel	Carbon Steel
02	Name Plate	Aluminium	Inox
03	Bolts B/C	EN 10269 (1.7709) 21CrMoV 5.7	A2-70
04	Cover	DIN 17243 (1.0460) C22.8 – P250GH	X5CrNiMo17-12-2 1.4401
05	Gasket	SS316 + Graphite	SS316 + Graphite
06*	Hinge Pin	X5CrNiMo17-12-2 1.4401	X5CrNiMo17-12-2 1.4401
07	Seat	EN 10088-3 (1.4021) X20Cr13 + ST.6	X5CrNiMo17-12-2 1.4401
08	Swing	EN 10088-3 (1.4021) X20Cr13 + ST.6	X5CrNiMo17-12-2 1.4401
09	Hinge	X5CrNiMo17-12-2 1.4401	X5CrNiMo17-12-2 1.4401
10	Nut	A2-70	A2-70
11	Body	DIN 17243 (1.0460) C22.8 – P250GH	X5CrNiMo17-12-2 1.4401

* Recommended Spare Parts

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OPM ITALIA
Oil and Gas Piping Materials

FORGED SWING CHECK VALVES

UNI PN40/100

FORGED STEEL SWING VALVES CLASS PN40 PN100 RF

SIZE (Full Bore)		PN40 RF - DIMENSION in mm				
Inches	mm	A	B	C	D	Kg (HANDWHEEL)
1/2"	15	130	75	15	-	4
3/4"	20	150	85	20	-	4.5
1"	25	160	100	25	-	6.5
1-1/4"	32	180	110	32	-	11
1-1/2"	40	200	140	40	-	14
2"	50	230	160	50	-	19

SIZE (Full Bore)		PN100 RF - DIMENSION in mm				
Inches	mm	A	B	C	D	Kg (HANDWHEEL)
1/2"	15	210	68	12	-	5.8
3/4"	20	230	92	17	-	10
1"	25	230	98	22	-	12
1-1/4"	32	260	105	24	-	16.5
1-1/2"	40	260	140	29	-	16.5
2"	50	300	148	31	-	19

ANSI CLASS
PN40 / PN100

PRESSURE – TEMPERATURE RATINGS TO ANSI B16.34

Temperature	WORKING PRESSURE (bar.g)			
°C	DIN 17243 (1.0460) C22.8 – P250GH (a)		X5CrNiMo17-12-2 1.4401 (c)	
	PN40	PN100	PN40	PN100
-29 to 38	39.0	102.1	37.3	99.3
93	37.2	93.1	36.4	85.5
149	34.1	90.7	33.8	77.2
204	31.7	87.6	31.3	70.7
260	28.4	82.8	29.3	65.9
316	26.0	75.5	27.6	62.1
343	23.5	74.1	25.8	61.4
371	21.9	73.4	24.9	60.0
399	21.6	69.7	24.5	59.0
427	21.1	56.9	24.0	58.3
454			23.8	57.6
482			22.6	57.2
510			21.5	53.4
538			19.7	48.3

(a) Permissible, but not recommended for prolonged usage above 427 °C
(b) Permissible, but not recommended for prolonged usage above 594 °C
(c) For welding end valves only: Flanged end ratings terminate at 538°C

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