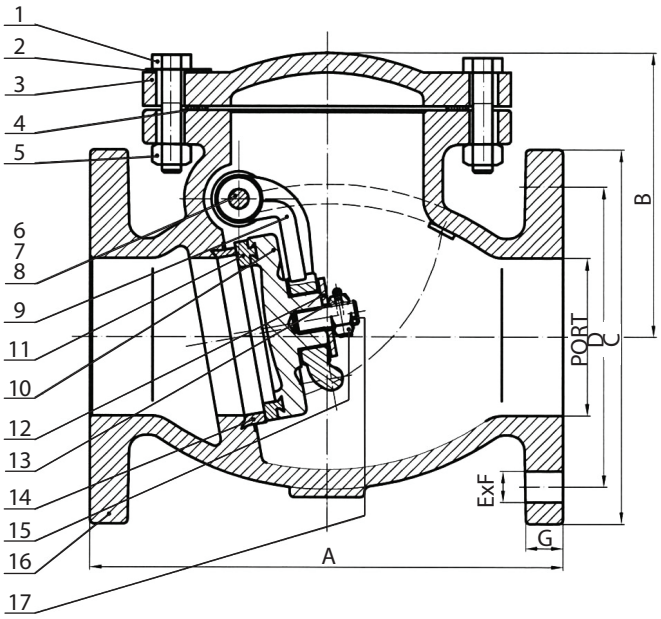
CAST IRON SWING CHECK VALVE

DESIGN FEATURES	TEST FEATURES	MARKING BODY
VALVE DESIGN: MSS SP-71	TEST ACCORDANCE TO PER API 598	CL.B
FLANGE DIMENSIONS: ANSI B16.1	WORKING PRESSURE: 200 WOG (WATER, OIL & GAS) 125 WSP (WORKING STEAM SERVICE)	LINE
FACE TO FACE: ANSI B16.10	SHELL TEST (WATER): 350 PSIG	HEAT #
BOLTED COVER	SEAT TEST (WATER): 200 PSIG	

244BR-4”



BILL OF MATERIAL LIST

NO.	DESCRIPTION	MATERIAL
1	BOLTS	ASTM A-307 Gr. B
2	NAMEPLATE	ALUMINIUM
3	COVER	ASTM A-126 CLASS B
4	BODY GASKET	GRAPHITE NON ASBESTOS
5	NUTS	ASTM A-307 Gr. B
6	SIDE PLUG	ASTM B-16
7	GASKET	FIBER
8	HANGER PIN	ASTM B-16
9	HANGER	ASTM A-536 Gr 65-45-12
10	DISC	ASTM A-126 CLASS B
11	DISC RING	ASTM B-62
12	WASHER	ASTM A-307 Gr. B
13	SPLIT PIN	ASTM 420 S42000
14	SEAT RING	ASTM B-62
15	DISC NUT	ASTM A-307 Gr. B
16	BODY	ASTM A-126 CLASS B
17	STUD BOLT	ASTM A-307 Gr. B

DIMENSIONS											WEIGHT DATA		CRACKING PRESSURE (PSI)
MODEL	SIZE IN	SIZE MM	PORT	A	B	C	D	F	E	G	SIZE	WEIGHT (KG)	
244BR-09	2”	50	2.00	8.00	4.45	6.00	4.76	0.75	4.00	0.63	2”	9.35	0.40
244BR-10	2 1/2”	65	2.50	8.50	5.24	7.00	5.51	0.75	4.00	0.69	2 1/2”	12.88	0.40
244BR-11	3”	80	3.00	9.50	5.67	7.50	6.00	0.75	4.00	0.75	3”	15.90	0.40
244BR-12	4”	100	4.00	11.50	6.61	9.00	7.50	0.75	8.00	0.94	4”	27.90	0.40
244BR-13	5”	125	5.00	13.00	7.80	10.00	8.50	0.87	8.00	0.94	5”	31.85	0.40
244BR-14	6”	150	6.00	14.00	8.54	11.00	9.50	0.87	8.00	1.00	6”	41.55	0.40
244BR-15	8”	200	8.00	19.50	10.27	13.50	11.75	0.87	8.00	1.12	8”	82.70	0.40
244BR-16	10”	250	10.00	24.50	11.30	16.00	14.25	1.00	12.00	1.19	10”	150.00	0.40
244BR-17	12”	300	12.00	27.50	12.56	19.00	17.00	1.00	12.00	1.25	12”	226.05	0.40

***WEIGHT ESTIMATED**
***ALL DIMENSIONS ARE EXPRESSED IN INCHES**

PRESSURE-TEMPERATURE RATINGS FOR GRAY IRON

GRAY IRON			
TEMPERATURE -°F	125 CLASS NPS 2”-12”	NPS 14”-24”	200 WOG NPS 30”-48”
-20 A 100	200	150	150
200	190	135	115
225	180	130	100
250	175	125	85
275	170	120	65
300	165	110	50
325	155	105	-
350	150	100	-
375	145	-	-
400	140	-	-
425	130	-	-
**450	125	-	-

***Maximum temperature for bronze internals*

Maximum permissible according to MSS SP-70.

Shown temperature indicated will be the temperature indicated of metal of the retainers pressure parts. It will be assume metal temperature will be media temperature.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES

ASTM A126 CLASS B	
CHEMICAL REQUIREMENT	%
PHOSPHORUS	0.75 MAX
SULFUR	0.15 MAX

TENSION REQUIREMENT	
TENSION RESISTANCE (PSI)	31000 MIN
HARDNESS	195 HB

Gray iron material specifications

Gray cast iron is an iron, carbon, silicon, magnanese alloy. Cast iron is the most versatile of all metals foundry. It´s high porcentage of carbon makes easier foundry fusion and manufacture machinery. The low grade or absence of contractions and a high facility of molding provides high foundry quality.

This grade of cast iron it´s an iron with a high resistance, modified to control hardness & microstructure. Get´s it´s maximun hardness as a result of refined control of the chemical composition, size and graphite scams type. We obtained tension properties desired through the control of these elements and the adition of other alloy elements.

Gray cast iron is commonly used in general services and wet medias such as clean water, waste, oil, gas & steam