



Let The Good Ideas Flow.

# Cryogenic Bronze & SS 3 Way Diverting Valve

## 103 (Bronze), 109 (SS) Series, PN50



### BSPT, NPT Ends

Applications	Liquid, Gas Oxygen Services
Working Temperature	-196°C to +190°C
Max Working Pressure	5.0 Mpa (725 psi), Non-Shock Cold

### Standards

Design accordance with EN12516 part 1, 2 & 4, ASME B16.34, ASME B16.24  
 End Connection: ISO 7-1, ASME B1.20.1  
 Tested to ISO 5208, API 598  
 CE, Pressure Equipment Directive (97/23/EC)

### Notes

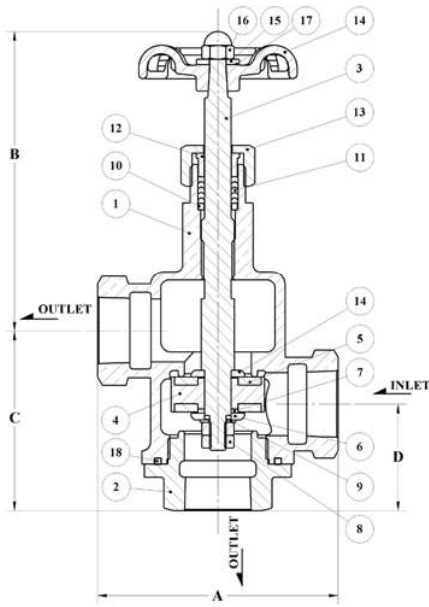
Degreased, Packed for Oxygen Services (ASTM G93)  
 Various schedule pipe and tube connections are available upon request  
 Various materials (HTB1, Monel) are available upon request  
 32, 40, 50mm diverting valve inlet and outlet position are horizontally aligned  
 \*Material Comparison

	ASTM/UNS	AS/NZS
Gun Metal	B62 C83600	1565 C83600A
Brass	B455 C38500	1567 C38500
Mn.Br.	C68600	1567 C68600

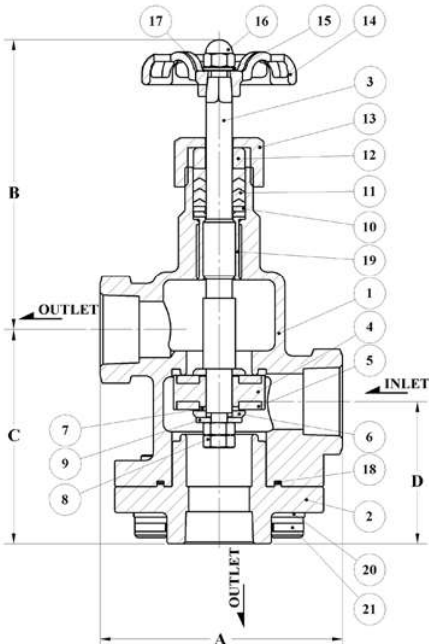
### Face to Face Dimensions (mm)

VALVE SIZE	END CONNECTIONS - A		WEIGHT (Kg)
	1038CR 1098CR (BSPT)	1038ACR 1098ACR (NPT)	
15mm	92	92	1.5
20mm	114	114	1.5
25mm	118	118	2.5
32mm	153	153	3.3
40mm	153	153	5
50mm	210	210	7.5

## Bill Of Materials



ITEM NO.	DESCRIPTION	103 SERIES (BRONZE) MATERIAL	109 SERIES (STAINLESS STEEL) MATERIAL
1	BODY	*AS/NZS 1565 C83600A	ASTM A351 Gr CF8M
2	END CAP	*AS/NZS 1565 C83600A	ASTM A351 Gr CF8M
3	SPINDLE	ASTM A276 GR 316	ASTM A276 GR 316
4	DISC HOLDER	*AS/NZS 1567 C38500	ASTM A276 GR 316
5	DISC	PTFE, GLASS FILLED	PTFE, GLASS FILLED
6	DISC WASHER	*AS/NZS 1567 C38500	ASTM A276 GR 316
7	DISC SEAL	P.T.F.E.	P.T.F.E.
8	HEX NUT	*AS/NZS 1567 C38500	ASTM A276 GR 316
9	FLAT WASHER	*AS/NZS 1567 C38500	ASTM A240 Gr 316
10	GLAND WASHER	*AS/NZS 1567 C38500	ASTM A276 GR 316
11	V-PACKING	P.T.F.E.	P.T.F.E.
12	GLAND	*AS/NZS 1567 C38500	ASTM A276 GR 316
13	GLAND NUT	*AS/NZS 1567 C38500	ASTM A276 GR 316
14	HANDWHEEL	ASTM A216 WCB, ZINC PLATED	ASTM A216 WCB, ZINC PLATED
15	WASHER	ASTM A240 Gr 316	ASTM A240 Gr 316
16	DOME NUT	ASTM A240 Gr 316	ASTM A240 Gr 316
17	NAMEPLATE	ASTM A240 Gr 316	ASTM A240 Gr 316
18	GASKET	P.T.F.E.	P.T.F.E.
19	THREAD BUSH	-	*AS/NZS 1567 C68600
20	SPRING WASHER	-	ASTM A240 Gr 316
21	SHCS	-	ASTM A4-70



## Dimensions (mm)

VALVE SIZE	B (Open)	BRONZE		STAINLESS STEEL		Cv - US gal/min	Kv m3/hr
		C	D	C	D		
15mm	105	79	54	89	64	5.4	4.6
20mm	141	86	51	101	66	6.0	5.1
25mm	141	86	51	104	69	13.2	11.2
32mm	208	105	105	125	125	16.8	14.3
40mm	208	105	105	125	125	24.0	20.4
50mm	259	124	124	147	147	39.7	33.7

DIVERTING VALVE