



12 SERIES REGULATOR

SPRING LOADED, HAND OPERATED, PRESSURE REDUCING REGULATOR WITH METAL TO METAL SEALED DIAPHRAGM, WITH EITHER A 10 Ra OR 5 Ra AVERAGE/ 7 Ra MAX MICROINCH FINISH ON ALL WETTED SURFACES, AND ESS00-C CLEAN.

GENERAL SPECIFICATIONS:

INLET PRESSURE: 150 PSIG MAX
 OUTLET PRESSURE: SEE TABLE III
 DESIGN PROOF PRESSURE: 150% OF RATED INLET PRESSURE
 DESIGN BURST PRESSURE: 400% OF RATED INLET PRESSURE
 OPERATING TEMPERATURE: -40°C TO 60°C
 LEAKAGE: EXTERNAL: <1 X 10⁻⁹ atm cc/sec. PER ASTM E449
 WEIGHT: APPROXIMATELY .84 LB.
 INTERNAL VOLUME: 1.53 cc
 Cv=.04

MATERIALS CONTACTING LINE MEDIA:

SEAT: PCTFE
 BODY: 316L VAR SST
 DIAPHRAGM: HASTELLOY
 COMPRESSION MEMBER: 316L VAR SST
 VALVE STEM: HASTELLOY

ASSEMBLY INFORMATION:

USE ASSEMBLY NUMBER: A45569-02

SCD: REFER TO SOURCE CONTROL TABLE
 CATALOG PRODUCTS

TABLE I	DASH NO.	TYPE
	1	NON-CAPTURED BONNET

TABLE II	DASH NO.	BODY MAT'L.	SEAT MAT'L.	INTERNAL FINISH
	A	316L VAR SST	PCTFE	10 Ra
	B	316L VAR SST	PCTFE	5 Ra (AVE)
	E	316L VAR SST	VESPEL	10 Ra

TABLE III	DASH NO.	OUTLET PRESSURE
	0	20 In Hg VACUUM TO 15 PSIG
	1	3-30 PSIG
	2	3-60 PSIG
	3	3-100 PSIG

TABLE IV	DASH NO.	HANDKNOB COLOR
	1	BLACK
	5	WHITE

TABLE V	DASH NO.	PORTING CONFIGURATION
	AA	IN @ 3 0'CLOCK, OUT @ 9 0'CLOCK
	AC	IN @ 3 0'CLOCK, OUT @ 9 0'CLOCK, OUT 1/4 FEMALE SWIVEL @ 12 0'CLOCK
	AE	IN @ 3 0'CLOCK, OUT @ 9 0'CLOCK, OUT 1/4 MALE FIXED @ 12 0'CLOCK
	DN	IN @ 3 0'CLOCK, OUT @ 9 0'CLOCK, IN 1/4 FEMALE @ 6 0'CLOCK, OUT 1/4 FEMALE @ 12 0'CLOCK

12-1B11AAEM6EM6Z
 3:00 0'CLOCK
 9:00 0'CLOCK

TABLE VIII	DASH NO.	OPTION
	Z	NONE
	4	ELECTROPOLISH
	C	CERTIFICATION OF CONFORMANCE

TABLE VII	DASH NO.	CENTERLINE TO END DIM. "A" & "B" DIM ±.03
	A5	1.50
	B7	1.85
	M6	1.39
	M5	1.00
	P4	1.06
	U5	1.45

TABLE VI	DASH NO.	PORT TYPE	MINIMUM C TO END LENGTH
	B	1/4 TUBE	.875
	C	1/4 MALE SWIVEL	1.63
	D	1/4 FEMALE SWIVEL	1.39
	E	1/4 MALE FIXED	1.39
	7	1/4 MALE FIXED W/HEX	1.39

BC 6-22-10	5390-10	DRM	BJT	TESCOM CORPORATION HIGH PURITY CONTROLS DIVISION BLK RIVER, MN USA INFORMATION CONTAINED ON THIS DOCUMENT IS THE PROPERTY OF TESCOM CORPORATION. NO RIGHTS ARE CONVEYED NOR IS PERMISSION TO DISCLOSE TO OTHERS GIVEN. UNLESS OTHERWISE SPECIFIED: .00 ± .020 ANGLES: ±1° .00 ± .010 .000 ± .005 SURFACE ROUGHNESS: 100 CORNER & FILLET RADI: .005-.020 THREADS: CLASS 2 REMOVE ALL BURRS BY: TL APPR:	MATERIAL:	χ
BF 3-29-10	5202-10	DRM	BJT		FINISH: χ	
BE 2-11-10	5087-10	DRM	BJT			
BD 5-22-08	6073-08	DRM	BJT			
BC 10-1-07	6167-07	JDS	BJT			
BB 3-28-08	6051-08	DRM	BJT			
BA 4-1-08	1350-08	DRM	BJT			
AY 10-13-06	1200-06	DRM	BJT			
AW 6-26-06	1134-06	DRM	BJT			
AV 4-4-06	1075-06	DRM	BJT			
REV.	DATE	ECO NO.	BY:			
REVISIONS						
REFERENCE DRAWING(S)						

DRAWN BY:	CHECKED BY:	APPROVED BY:
DRM 7-24-00	BJC 7-24-00	BJC 7-24-00
NAME		
INSTALLATION INFORMATION		
SCALE: NONE	SIZE: C	NUMBER: 12-XXXXXXXXXXXX
CODE NO. 13669	SHT. 1	OF 1

(DO NOT SCALE DRAWING)