

GENERAL INFORMATION

1.1 INTRODUCTION

1.1.1 Scope. General information concerning Vanessa Series 30,000 US-Navy Configuration, Double Flanged Body Style valves, face to face according to MIL-V-1189D – 803-2177917. Valve is in accordance with Vanessa document TOTS-USNAVY.

1.1.2 Organization. Paragraph 1.2 includes a technical description of the valves in terms of Dimensions, Vibration Resistance and Shock Resistance; paragraph 1.3 includes torque and CV values.

1.2 EQUIPMENT DESCRIPTION

Valves are of the following styles and types as specified below:


- a. Body style: Double Flanged.
- b. Face to Face: MIL-V-1189D – 803-2177917.
- c. Size range: from 3” to 12”.
- d. Type I: non-ferrous, metal seated.

The pressure-temperature ratings of the valve body are in accordance with ASME B16.34 for the pressure class specified. For materials not listed in ANSI-ASME B16.34 the pressure-temperature ratings are per the manufacturer’s standard.

1.2.1 Dimensions. Double flanged valves have been manufactured with face-to-face dimension in accordance with MIL-V-1189D – 803-2177917.

1.2.2 Vibration Resistance: (Later).

1.2.3 Shock Resistance: (Later).

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Tyco Valves & Controls Italia S.r.l. - VANESSA Manufacturing Plant - Via Piacenza - 29018 Lugagnano Val D'Arda (Pc) - Italy					
		Title	FSCM : 04613	Size : A	
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1.3 REFERENCE DATA

1.3.1 Torque Data

Table 1-1. Torque Values

ND		Differential Pressure	Running	Dynamic at 35 ft/s	Pressure Direction	End to Close	Start to Open	Max Allowable to Close	Max Allowable to Open
in	mm	psi g	in lbs	in lbs		in lbs	in lbs	in lbs	in lbs
3	80	150	363	Not significant	SS ¹	699	860	1049	1720
					BID ²	"	"	"	"
		275			SS ¹	"	"	"	"
					BID ²	"	"	"	"
4	100	150	451	Not significant	SS ¹	1195	1470	1793	2940
					BID ²	"	"	"	"
		275			SS ¹	"	"	"	"
					BID ²	"	"	"	"
5	125	150	584	715 at 30°	SS ¹	1469	2210	3134	6162
					BID ²	2089	3081	"	"
		275			SS ¹	1469	2210	"	"
					BID ²	2089	3081	"	"
6	150	150	451	659 AT 30°	SS ¹	1655	2035	3492	6880
					BID ²	2309	3416	"	"
		275			SS ¹	1655	2058	"	"
					BID ²	2328	3440	"	"
8	200	150	885	1574 at 30°	SS ¹	2266	2787	4833	9534
					BID ²	3177	4690	"	"
		275			SS ¹	2266	3625	"	"
					BID ²	3222	4767	"	"
10	250	150	1354	2901 at 30°	SS ¹	4204	5177	8961	17614
					BID ²	5885	8691	"	"
		275			SS ¹	4204	6401	"	"
					BID ²	5974	8807	"	"
12	300	150	1850	5360 at 30°	SS ¹	5983	7363	13023	25626
					BID ²	8381	12372	"	"
		275			SS ¹	5983	9536	"	"
					BID ²	8682	12813	"	"


- 1 SS means Shaft Side.
- 2 BID means Bidirectional.
- 3 ND means Nominal Diameter.

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1.3.2 CV Values

Table 1-2. CV Values

ND		Rated CV Shaft side	Rated CV Disc side
in	mm		
3	80	94	85
4	100	210	180
5	125	400	371
6	150	790	732
8	200	1530	1472
10	250	2589	2480
12	300	3923	3790

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