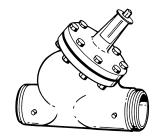


SUBMITTAL

a xylem brand

B-807G

JOB:	REPRESENTATIVE:	
UNIT TAG:	ORDER NO.	DATE:
ENGINEER:	SUBMITTED BY:	DATE:
CONTRACTOR:	APPROVED BY:	DATE:



Centrifugal Pump Accessories

# Triple Duty® Valve - with Grooved Ends

Straight Pattern with Soft Seat Nonslam Check Valve, Throttling Valve, Calibrated Balance Valve and Shutoff Valve

#### **DESCRIPTION**

The Triple Duty Valve is a quiet operating heavy-duty valve which performs all of the functions normally required on the discharge side of hydronic system pumps.

The valve serves as a nonslam check valve as needed for zoned pumping, parallel and standby pumping, and condenser water applications. The spring loaded disk prevents valve chatter, and assures positive shutoff.

The cut groove ends enable the valve to be used without adapters in the grooved piping systems. Groove dimensions conform to industry standards.

Bell & Gossett's Triple Duty Valve has a calibrated nameplate for rough system balance. The Triple Duty Valve is also equipped with Model RV-125A brass readout valves for more accurate system balance.

The calibrated nameplate allows the valve to be returned to the original balance position after shutoff.

To repack under system pressure, turn the valve stem to the fully open position. Turning the valve stem to the closed position provides shutoff.

#### **CONSTRUCTION MATERIALS**

Body: Ductile Iron with Bronze Seat Disc: 2" - 8" Brass with EPDM Seat Insert

10" - 12" Stainless Steel with Brass Bushing and EPDM Insert

Stem: Stainless Steel Spring: Stainless Steel

Packing: Teflon-Graphite (Asbestos-free)

Gasket: Asbestos-free

Readout Valve: Brass with EPT insert, Check Valve & Gasket

SCHEDULE Maximum Working Pressure 300 PSIG (1,724 kPa) - Maximum Operating Temperature 250°F (121°C)

MODEL NO.	PART #	PIPE SIZE INCHES (mm)	MAXIMUM RECOMENDED FLOW GPM(m <sup>3</sup> /hr)	TAGGING INFORMATION	QUANTITY
		` ′	, ,	TAGGING INI OKWATION	QUANTITI
3DS-2G	132150	2 (50.8)	275 (62)		
3DS-2-1/2G	132151	2-1/2 (63.5)	390 (89)		
3DS-3G	132152	3 (76.2)	670 (152)		
3DS-4G	132153	4 (101.6)	1200 (272)		
3DS-5G	132154	5 (127)	1675 (380)		
3DS-6G	132155	6 (152.4)	2500 (568)		
3DS-8G	132156	8 (203.2)	3585 (814)		
3DS-10G	132220	10 (254)	6150 (1397)		
3DS-12G	132221	12 (304.8)	8050 (1828)		



# TRIPLE DUTY ® VALVE WITH GROOVED ENDS (STRAIGHT PATTERN)

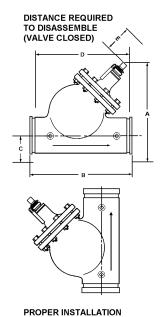
## PERFORMANCE DATA

Cv RATING	Cv RATING AT 100% OF STEM RISE*(m³/hr)								
REFERENCE	3DS-2G	3DS-2-1/2G	3DS-3G	3DS-4G	3DS-5G	3DS-6G	3DS-8G	3DS-10G	3DS-12G
А	83	116	204	359	502	746	1,085	1,851	2,446
	(18.9)	(26.3)	(43.6)	(81.5)	(114.0)	(169.4)	(246.4)	(420.4)	(555.5)
В	77	117	191	336	497	701	1,079	1,826	2,430
	(17.5)	(26.6)	(43.4)	(76.3)	(112.9)	(159.2)	(245.0)	(414.7)	(551.9)

- A. FLOWMETER CV FOR BALANCING. MINIMUM READING OF 3 FEET (.9 m) OF PRESSURE DROP REQUIRED FOR ACCURATE FLOW DETERMINATION.
- B. CV FOR CALCULATING PRESSURE DROP ACCROSS THE VALVE.

NOTE: MAXIMUM RECOMMENDED PRESSURE DROP SHOULD NOT EXCEED 25 FEET (7.6 m).

CONTACT YOUR LOCAL BELL & GOSSETT REPRESENTATIVE FOR COMPLETE PERFORMANCE CURVE DATA.



	DIMENSIONS IN INCHES (mm)						APPROX.
	Α						SHPG. WT.
MODEL NUMBER	OPEN	CLOSED	В	С	D	E	LBS. (Kg)
3DS-2G	7-3/8	6-3/4	9-3/8	1-3/16	8-7/8	3-1/2	16
	(187)	(171)	(238)	(30)	(225)	(89)	(7)
3DS-2-1/2G	7-1/2	6-3/4	9-3/4	1-7/16	9-1/8	3-1/2	16
	(191)	(171)	(248)	(37)	(232)	(89)	(7)
3DS-3G	8-5/8	7-11/6	10-13/16	1-3/4	10	3-15/16	25
	(219)	(195)	(256)	(44)	(254)	(78)	(11)
3DS-4G	12-3/8	11-3/8	15-1/8	2-1/4	14-3/16	6-1/4	70
303-46	(314)	(289)	(384)	(57)	(360)	(159)	(32)
200.50	13-1/2	12-1/4	17-1/8	2-25/32	15-1/2	6-7/8	86
3DS-5G	(343)	(311)	(435)	(71)	(394)	(175)	(39)
3DS-6G	15-1/4	13-3/4	19	3-5/16	17-1/2	8-1/4	160
303-66	(387)	(349)	(483)	(84)	(444)	(210)	(73)
3D6 9C	18	16-1/2	22-1/2	4-5/16	20-3/8	10-3/8	270
3DS-8G	(457)	(419)	(571)	(110)	(518)	(264)	(123)
3DS-10G	20-7/8	18-1/2	26-1/2	5-3/8	23-1/8	12-1/4	384
	(530)	(470)	(673)	(137)	(587)	(311)	(174)
3DS-12G	24	21-5/8	31	6-3/8	27	14-1/2	546
303-126	(610)	(549)	(787)	(162)	(686)	(368)	(248)

Dimensions are subject to change. Not to be used for construction purposes unless certified.

## SHOWING STEM UPRIGHT

## **TYPICAL SPECIFICATIONS**

Furnish and install as shown on plans, a straight pattern valve designed to perform the functions of a nonslam check valve, throttling valve, shutoff valve and calibration balancing valve.

The valve shall be a heavy-duty cast ductile iron construction with standard cut grooved connections, and rated for a maximum working pressure of 300 psig (1,724 kPa) at 250°F (121°C). The valve shall be fitted with a bronze seat, replaceable brass disc with EPDM seat insert, stainless steel stem, and chatter-preventing spring and calibrated nameplate. The valve design shall permit repacking under full system pressure.

The valve shall be equipped with brass readout valve (with integral check valve) for taking differential pressure readings across the orifice for accurate system balance.

Valve Cv rating at full open position not to be less than \_\_ to the 100% stem rise value shown in column "B" for required valve.)

All valves shall be ITT Bell & Gossett Model No. 3DS-\_\_\_\_G Triple Duty Valve.

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