Bell & Gossett

JOB:

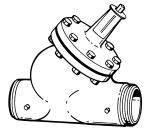
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SUBMITTAL

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UNIT TAG:OR DER NO.DATE:ENGINEER:SUBMITTED BY:DATE:CONTRACTOR:APPROVED BY:DATE:

REPRESENTATIVE:



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: Brass with EPDM Seat Insert Stem: Stainless Steel Spring: Stainless Steel Packing: Teflon-Graphite (Asbestos-free) Gasket: Asbestos-free Readout Valve: Brass with EPT insert, Check Valve & Gasket

MODEL NO.	PART #	PIPE SIZE INCHES (mm)	MAXIMUM RECOMENDED FLOW GPM(m ³ /hr)	TAGGING INFORMATION	QUANTITY
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	132157	10 (254)	6150 (1397)		
3DS-12G	132158	12 (304.8)	8050 (1828)		

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

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TRIPLE DUTY [®] VALVE WITH GROOVED ENDS (STRAIGHT PATTERN) PERFORMANCE DATA

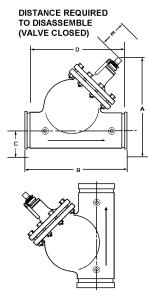
Cv RATING	Cv RATING AT 100% OF STEM RISE [*] (m ³ /hr)								
REFERENCE	3DS-2G	3DS-2-1/2G	3DS-3G	3DS-4G	3DS-5G	3DS-6G	3DS-8G	3DS-10G	3DS-12G
A	83	116	204	359	502	746	1,085	1,851	2,446
	(18.9)	(26.3)	(43.6)	(81.5)	(114.0)	(169.4)	(246.4)	(420.4)	(555.5)
В	77	117	191	336	497	701	1,079	1,826	2,430
	(17.5)	(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)						
	A						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
303-40	(314)	(289)	(384)	(57)	(360)	(159)	(32)
3DS-5G	13-1/2	12-1/4	17-1/8	2-25/32	15-1/2	6-7/8	86
303-56	(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
303-00	(387)	(349)	(483)	(84)	(444)	(210)	(73)
000.00	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)
200 400	24	21-5/8	31	6-3/8	27	14-1/2	546
3DS-12G	(610)	(549)	(787)	(162)	(686)	(368)	(248)
Dimensions are subject to change. Not to be used for construction purposes unless certified.							

PROPER INSTALLATION 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 _____. (Refer 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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