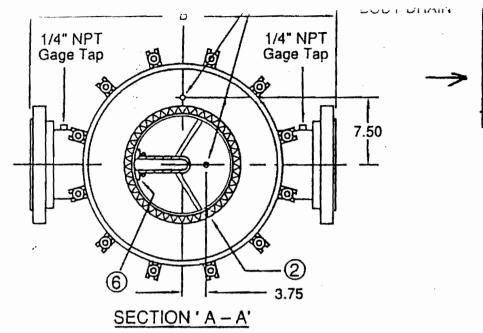


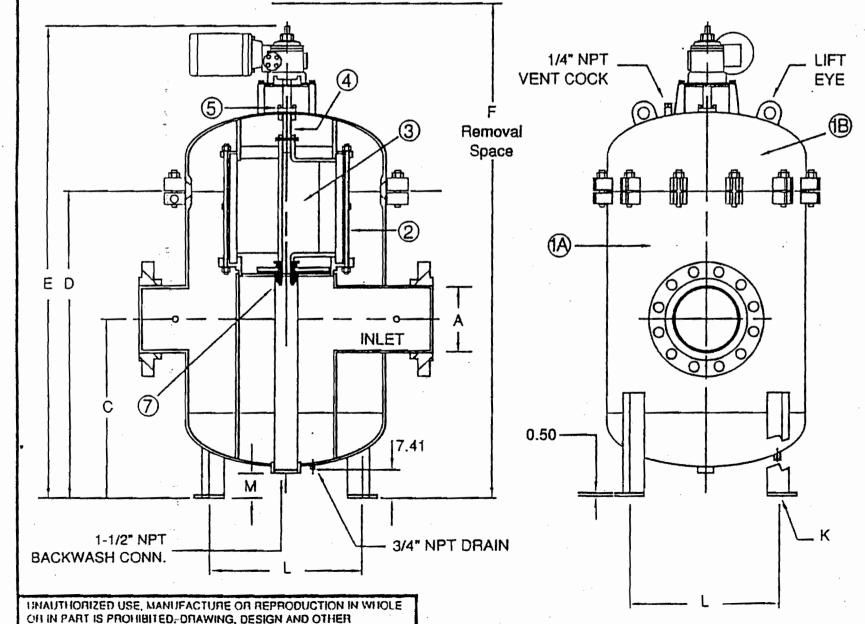
	ASME CONSTRUCTED & STAMPED							REPLACEMENT PARTS				MATERIAL SPECIFICATION			
	SECTION VIII, DIV. 1						DESCRIPTION	ON/MATERIAL	PART	NUMBER	FRONT HEAD:	316SS	SHELL:	STEEL	
1							BUNDLE KIT W	/ GSKT & PKNG	4-205-1	2-075-002	REAR HEAD:	CAST 316SS	TUBESUPPORTS:	STEEL	
	D.P. T.P. MAX. TEMP. MIN. TEMP.					. GASKET (2):	COMP FIBER	3-298-8	-00-925-12	TUBESHEET:	316SS				
	TUBE SIDE	125PSI	250PSI	375°F	_	-20 °F	GASKET: (1):	COMP FIBER	3-299-8	-00-928-12	TUBES:	(QTY 196)316SS	625 OD X 18 BWG		
	SHELL SIDE	150PSI	300PSI	375°F	-	-20 °F	PACKING:	SYN FIBER	3-359-8	-00-909-52					
							TITLE	HEAT EXCHAN	IGER		PART No.		SALES No. QOC126-2		
							MATERIAL				THIS DRAWING A OF ITT BELL & SHALL NOT BE I	ND THE INFORMATION GOSSETT; COPIES ARE REPRODUCED OR COPI B SALE OF PRODUCTS	DEPICTED THEREIN IS THE I ISSUED IN STRICT CONFIDE ED, OR USED AS THE BASIS WITHOUT PRIOR WRITTEN PE	PROPERTY ENCE AND FOR THE	
							NAME		CK. BY	DATE	OF ITT BELL &	GOSSETT.	WITHOUT FRIOR WRITTER TE	LINISSION	
							JRB	3/30/95					0 0 11		
							TOLERAN	CES UNLESS C	THERWISE	SPECIFIED		LLL Bell	& Gossett		
REV#		REVISION:	S	DAT	E E	Y APPE	DEC.±	FRAC.± A	NGLE±	SCALE	Buffalo	o, NY U.S.A.			



A STREET, STRE

ĺ	A	В	С	D	E	F	K	L	М
	in./mm	in./mm	in./mm	ln. / mm	in. / mmূ	in. / mm	in. / mm	in./mm	in. / mm
	6 / 152	26 / 660	20 / 508	30 / 762	51.69/1313	60 / 1524	.875/ 22	18 / 457	7 / 178
-	8 / 203	26 / 660	20/508	30 / 762	51.69/1313	60 1524	.875/_22	18/457	7 / 178

NO.	PART NAME	MATERIAL		
.1A/1B	Body/Cover	Stainless Steel		
2	Straining Element	316 Stainless Steel		
3	Backwash Arm	Stainless Steel		
4	Backwash Shaft	Stainless Steel		
5	Packing Seal	Duck and Rubber		
6	Port Seal	Urethane		
7	Bearing	Composite		



NOTES:

- 1. FOR REPLACEMENT PARTS, MODEL NO., SIZE AND SERIAL NO. FROM THE STRAINER NAMEPLATE MUST BE FURNISHED.
- 2. FLANGED CONNECTIONS CONFORM TO ANSI STANDARDS.
- 3. ALL WEIGHTS IN POUNDS, ALL DIMENSIONS IN INCHES. SHIPPING WEIGHT: 442 POUNDS

FLOODED WEIGHT: 617 POUNDS COVER WEIGHT: 110 POUNDS

CERTIFIED FOR: ABCO P.O. NO.: — 27927 REG. NO.: — 27927 QUOTE NO.: 95-0153 TAG NO.:

ELEMENT: 100 MESH EQUIV.



HAYWARD INDUSTRIAL PRODUCTS, INC. 900 FAIRMOUNT AVENUE, ELIZABETH, NJ 07207

MODEL 596 STRAIN-O-MATIC® 6"-8" FABRICATED AUTOMATIC STRAINER

CERT. BY DATE -13-92 REV

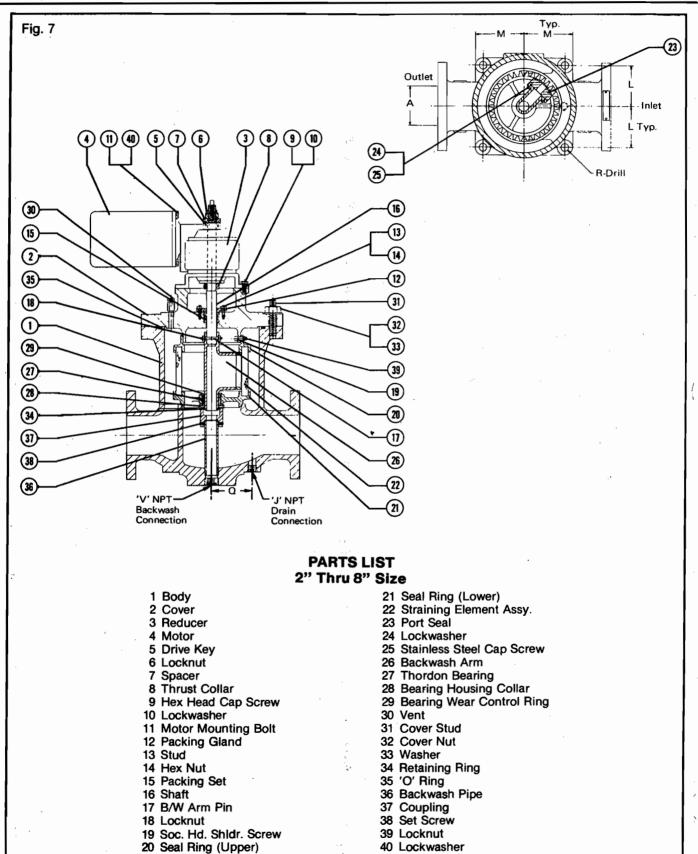
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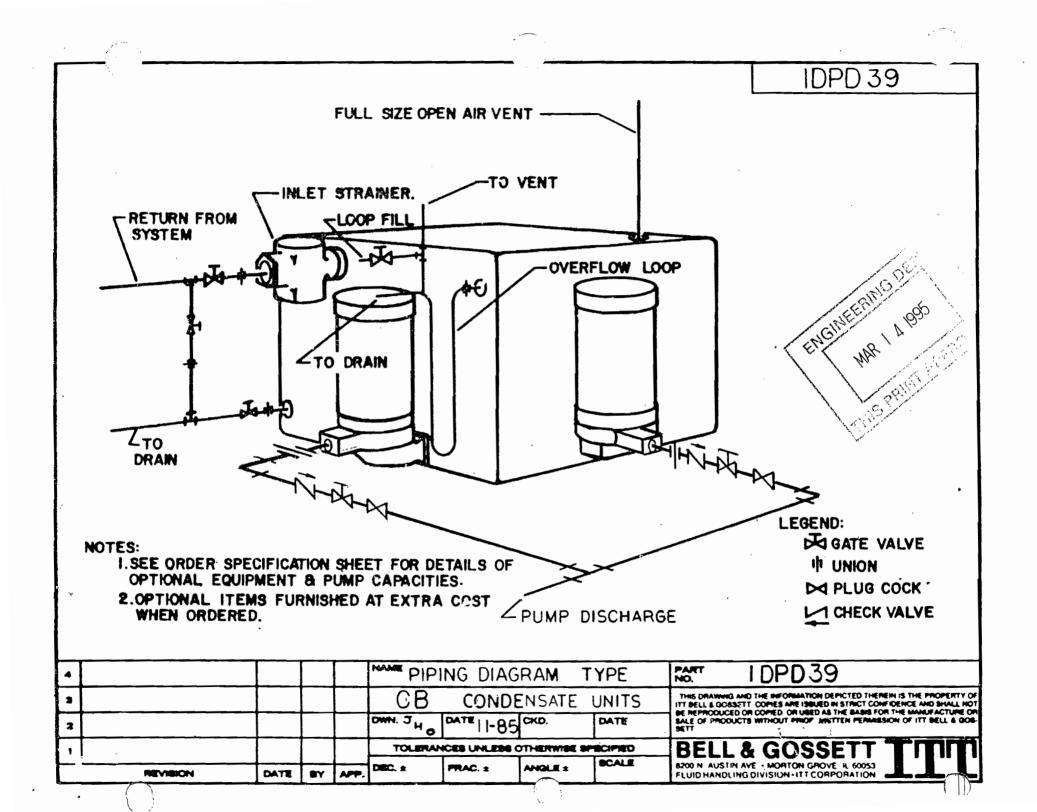


Installation, Operation & Service Manual

Hayward Strain-O-Matic® Self-Cleaning Straine Model 596 - 2" thru &

900 Fairmount Avenue, Elizabeth, NJ 07207 Phone: (908) 351-5400 ● Fax: (908) 351-7893





0488



Johnson Controls, Inc. **Controls Group**

507 E. Michigan Street P.O. Box 423 Milwaukee, WI 53201

V-5464 Normally Closed 1-1/2 and 2 in. Cage Trim Steam or Water Valves Class 250 ANSI Body Rating

The V-5464 Normally Closed Valve is designed to accurately regulate the flow of steam or hot and cold water through coils and heat exchangers of all types. The valve is furnished with a factory installed 4R actuator which is equipped with a molded synthetic rubber diaphragm contained in a sturdy metal housing, protected from dirt and damage. The modulating valve plug includes a molded and bonded composition disc especially compounded for steam or water service.

The V-5464 features an encapsulated spring design which allows safe and simple maintenance. The self contained spring assembly is removed and replaced as a complete unit. The entire actuator can be easily removed to perform inline servicing to various parts of the valve. The actuator and valve provide a Push Down to Open (PDO) combination for normally closed applications.

Features

All V-5464 Valves feature a removeable cage trim design which provides valve plug guiding throughout the travel range and permits high rangeability. The cage also has an integral seat to facilitate convenient replacement. A modulating valve plug provides an equal percentage relationship

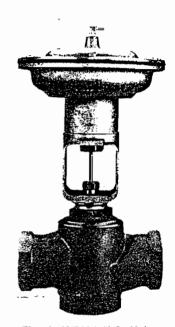


Fig. 1: V-5464 N.C. Valve

Specifications

Service		_	Steam or Hot and Cold Water				
Body Style	and Sizes	3	1-1/2 and 2 in. Threaded Ends (IPT)				
Max Contro	oi Pressur	e	25 PSIG (175 kPa) 1/8 in NPT Barbed Elbow Fitting for 1/4 in O.D. Polytubing				
Control Air	Connecti	on					
Valve Body Pressure/Temperature Rating			Exceeds Requirements of ANSI B16.15, Class 250				
Maximum /		Steam	35 PSIG (245 kPa) Saturated				
Pressure/T		Water	400 PSIG (2800 kPa) up to 150°F (66°C) Decreasing to 345 PSIG (2415 kPa) at 281°F (140°C)				
Spring Range (Nominal) Ambient Temp Limits			9 to 13 PSIG (63 to 91 kPa)				
			– 10 to 150°F (− 23 to 66°C)				
	Actuator	•	Cast Aluminum and Iron				
	Trim	Stem	Stainless Steel				
		Plug	Brass with Molded and Bonded Composition Disc				
Materials	Cage		Cast Brass Including Integral Seat				
	Diaphra	gm	Molded Reinforced Synthetic Rubber				
	Packing		Synthetic Elastomer U-Cups				
Accessories (Order Separately)			V-9502-23 Valve Positioner Kit				
			V-510-103 Valve Positioner Spring				
			V-5252-100 Valve Position Indicator				

The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products. between valve travel and flow at a constant pressure drop. A composition disc that provides tight shutoff is bonded and molded into the valve plug. The bonnet, cage, and the stem and plug assembly can be easily removed for servicing. A red arrow is stamped on one side of the valve body indicating normally closed valve style as well as the direction of flow for proper piping.

Operation

Air pressure from a pneumatic controller is applied to the diaphragm of the actuator which moves the diaphragm plate against the forces of the internal spring and the fluid. The diaphragm plate will move the valve plug to a position where the diaphragm pressure and the spring force balance against fluid forces. These fluid forces will cause the