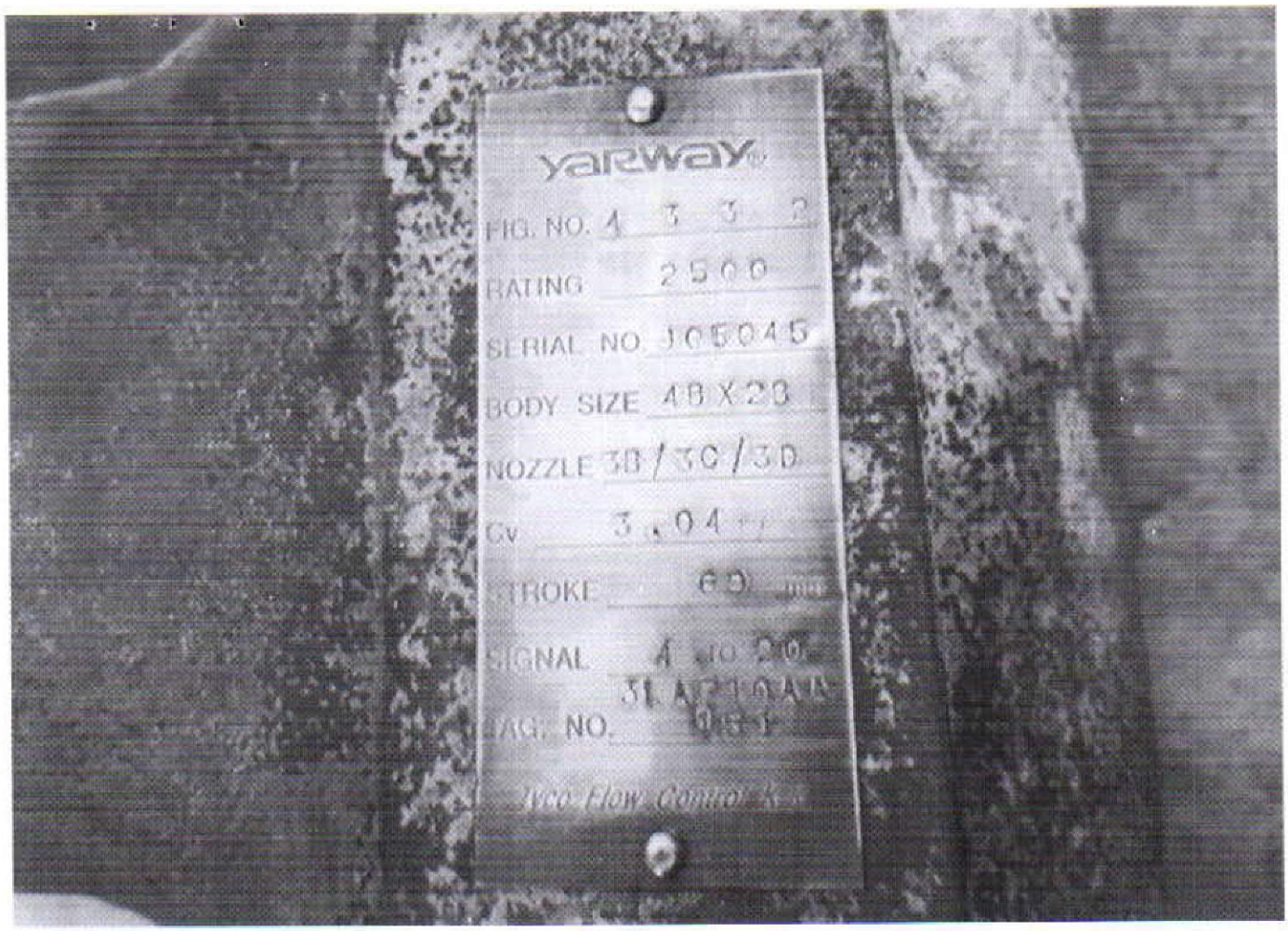
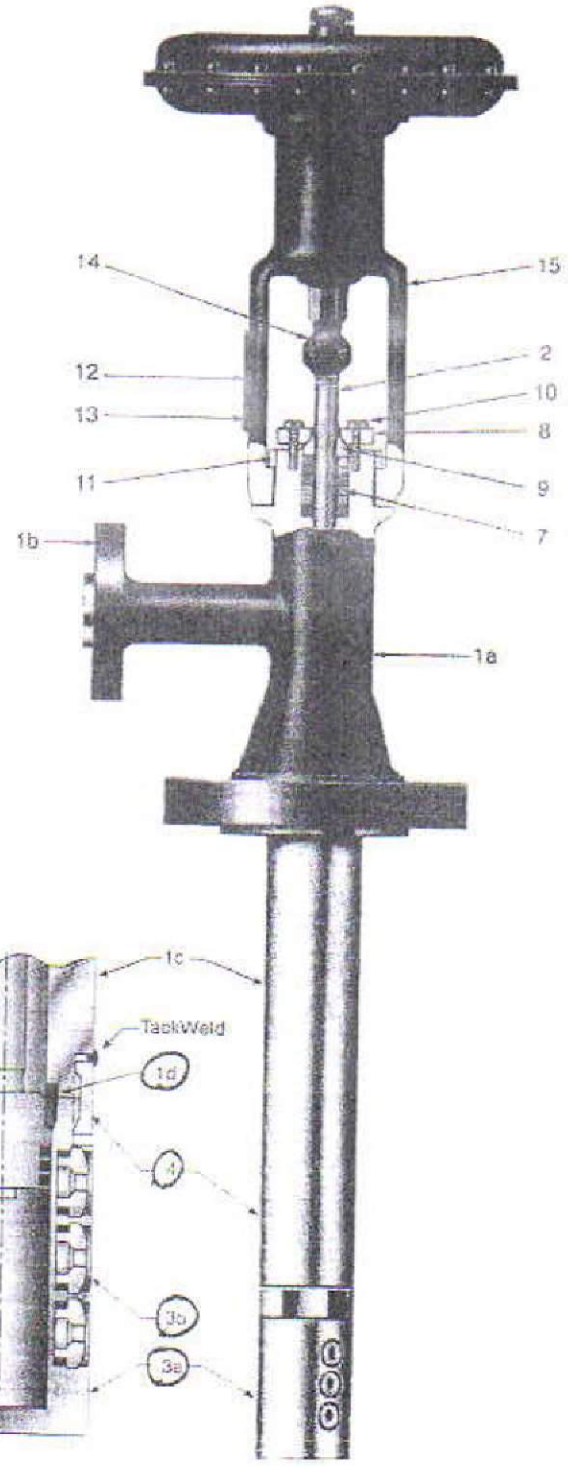

yarway
FIG. NO. 4 3 3 2
RATING 2500
SERIAL NO. 305045
BODY SIZE 4B X 2B
NOZZLE 3B / 3C / 3D
Cv 3.04
STROKE 60 mm
SIGNAL 4 to 20
TAG NO.
Tyco Flow Control

Standard Materials of Construction

Item	Name of Part	Material Specifications (ASTM)
1a	Body	
1b	Weld Flange	Class 150-1500 WC6/F11, F22 Class 2500 CF8C/F347
1c	Weld Jacket	
1c	Seat	Stellite No. 6
2	Stem Disc	AISI 410 Stainless Steel
3a	Sleeve Cylinder	AISI 410 Stainless Steel
3b	Water Nozzle	AISI 416 Stainless Steel
4	Retainer Ring	AISI 410 Stainless Steel
5	Piston Ring (Qty. 3)	AISI 420 Stainless Steel
7	Packing Set	Graphite
8	Gland Packing	AISI 416 Stainless Steel
9	Packing Gland	AISI 416 Stainless Steel
10	Gland Screw	A193 B16 Steel
11	Gland Nut	Carbon Steel
12	Gland Plate	AISI Stainless Steel
13	Drive Screw	AISI Stainless Steel
14	Spool Stem Connector	Steel
15	Contractor and Accessories	as required

1. Recommended Spare Parts. Specify Spare Part Item No., Figure No., and Serial No.



e. Esta sh ie main steam flow (at least the design mini m

12. Slow nc ase the instrument signal (IS) to 4 or 5 psi. The indi ec mperature starts to fall. The temperature transmit (T signal decreases. The controller (TIC) output p s. also decreases.

13. Slow de ease the instrument signal (IS) to 3.5 psi. The tem at will increase, the temperature transmitter (TT) out w increase, and the controller (TIC) output will incr e.

14. Whe tis ctory coordination between the instrument air sign IS and the steam temperature is reached, adjust th ol oller setpoint to the desired temperature using th ire ions of the manufacturer.

15. Tran fi n manual to automatic control will put the desuper ate station in operation.

16. Log or of steam pressure, water pressure, inlet steam te pe ture, controlled steam temperature and steam fl sh uld be maintained to verify operation.

PARTS I

ITEM		PART
1	—	Body Assembly
2	—	Stem Assembly
3	—	Spray Cylinder Assembly
4	—	Fastener Ring
5	Se	Piston Ring
6	—	Vortex Nozzle
7	Se	Packing
8	—	Packing Gland
9	—	Gland Bushing
10	—	Cap Screw
11	—	Lock Nut
12	—	Data Plate
13	—	Drive Screw
14	—	Split Nut Stem Connector
15	*	Actuator
20	*	Positioner

seat

*Standard A tor 3 Positioner—Fisher Controls Co., Marshalltown, Iowa. If different, ult rway certified drawing.

Recommer S 3 Part, Specify Spare Part by Item No., Figure No., Serial No.

MAINTENANCE

Review the Yarway certified installation drawing which gives the sizing and conditions specified for the Desuperheating Valve.

The valve's ability to maintain temperature control over its range of temperature and pressure is proof of proper performance. Clean desuperheating fluid, specified pressures, and proper packing gland adjustment will assure long life.

Readjustment and disassembly should not be scheduled without cause. Yearly checks of performance should be evaluated. Yarway recommends a maintenance inspection every five years.

INSPECTION

1. Review the current operating conditions of temperature, steam flow, pressure of steam and pressure of cooling water and compare with those specified on the installation drawing.

2. Estimate the valve position from the operating conditions and the heat balance.

3. Check the valve stem position.

4. Check the valve stem packing leakage. The packing gland should appear slightly wet.

5. Check to assure that the packing gland is equally centered around the valve stem.

6. Check to assure that the valve stem is smooth and not scored due to rubbing or binding.

7. Check the instrument air supply pressure and check the filter.

8. Check the air signal from the controller.

9. Inspect the positioner linkage to assure proper non-binding action.

10. Check the steam pressure and temperature.

11. Compare the temperature, temperature setpoint of the controller and the steam pressure to provide a minimum margin above saturation.

12. Blow down the strainer—changes in water inlet pressures indicate a contaminated supply.

13. Evaluate.

14. If operating conditions permit—

a. manually cause small changes to the system

1. to stroke valve
2. to change temperature
3. note changes

15. If the findings for the above checkpoints are satisfactory, return the valve to service.

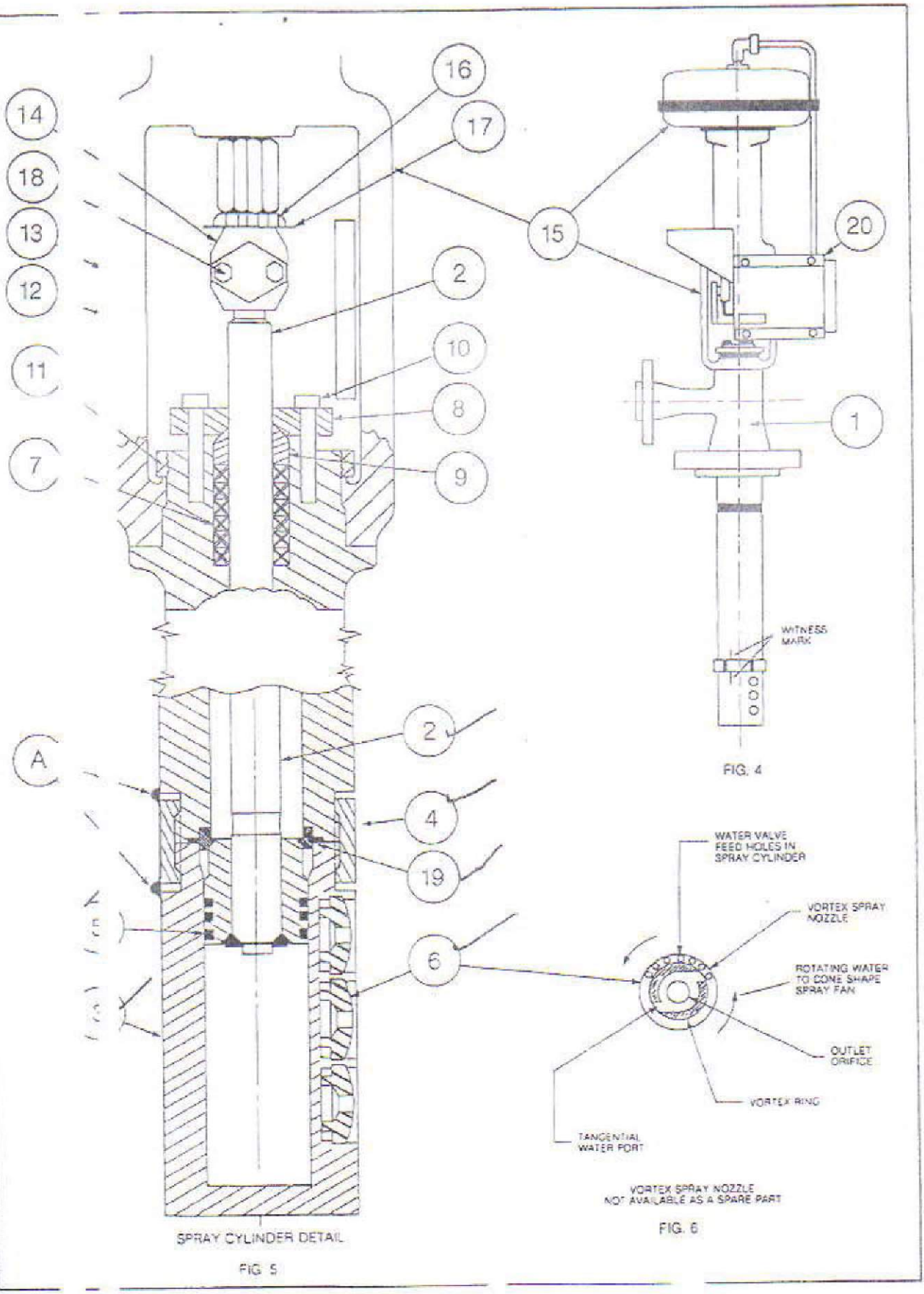


FIG. 4

FIG. 5

FIG. 6