

UOP

UOP N.V. Noorderlaan 147, B-2030 Antwerp, Belgium

AUTOMATIC GLOBE VALVE**PROJECT SPECIFICATION**

Number

Rev.

E-H6280-240

2

Sheet : 3 of 5

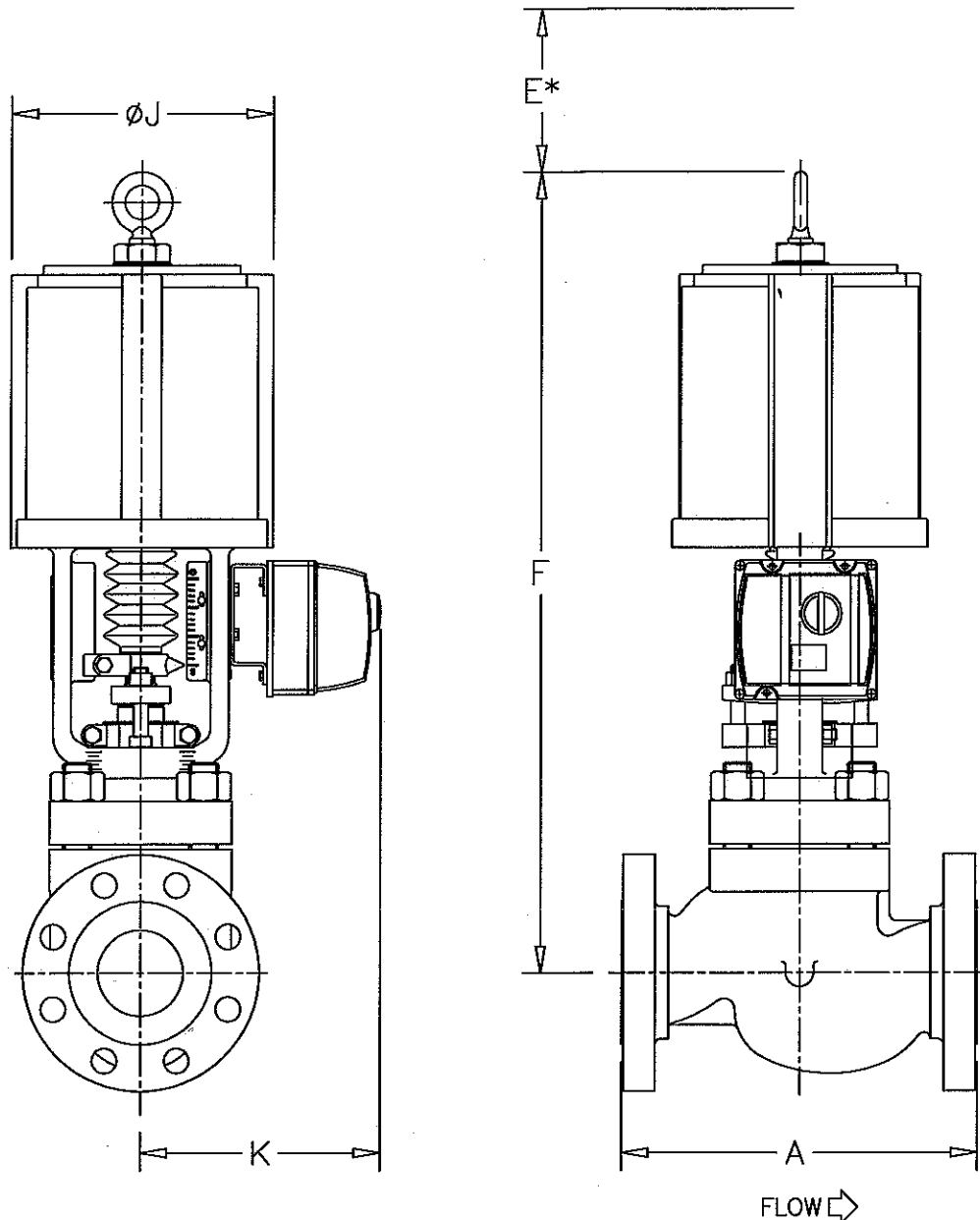
By : F. Heyman

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1	TAG NO.	U-XCV75013, 75023, 75033, 75043, 75053, 75063
2		U-XCV75073, 75083, 75093, 75103
3	QUANTITY	10
4	SERVICE	PROVIDING PURGE
5	MEDIUM COMPOSITION MOLECULAR WEIGHT	HYDROGEN / H ₂ / 2,03
6	AMBIENT TEMPERATURE MIN. / MAX.	-46 / +38 °C ACTUATOR POSITIONER LIMIT SW (note 1)
7	OPERATING TEMPERATURE MIN. / MAX.	-34 °C FOR VALVE BODY AND SEALS
8	OPERATING FLOW COND. 1 / 2 / 3	1570 / 5850 / 8350 Nm ³ /h
9	PRESSURE UPSTREAM COND. 1 / 2 / 3	17,95 / 5,61 / 8,05 kg/cm ² g
10	DP COND. 1 / 2 / 3	16,234 / 3,243 / 3,742 kg/cm ²
11	DP IN CLOSED POSITION	39,0 kg/cm ²
12	REQUIRED C _v COND. 1 / 2 / 3	1,6 / 20 / 22 (REDUCED TRIM)
13	VALVE BODY SIZE RATING STYLE	DN 50 / 300 lbs / FLANGED
14	SELECTED CV CHARACTERISTIC	CV 31/30 TRIM No 1.25 / EQUAL PERCENTAGE
15	BODY MATERIAL	ASTM A 352 LCC (-34°C)
16	FLANGE RATING FLANGE FACE FINISH	300 lbs / SMOOTH FINISH 3.2 - 6.3 µmRA
17	FACE TO FACE STD. FACE TO FACE LENGTH	LARGE FEMALE FACE ANSI B16.5a / BY MFR
18	VALVE SERVICE STANDARD	PSA HIGH CYCLING DUTY
19	VALVE CYCLIC SERVICE UNI / BI-DIRECTIONAL	BI-DIRECTIONAL
20	VALVE INITIAL CONTROL POSITION	0 - 25%
21	FLOW OVER / UNDER PLUG	HEADER OVER PLUG
22	SHAFT PACKING TYPE MATERIAL	STANDARD TWIN V-RINGS PTFE
23	PLUG AND SHAFT MATERIAL	316 STAINLESS STEEL
24	SEAT TYPE MATERIAL	SOFT PTFE
25	LEAKAGE RATE (CLASS TO ANSI/FCI-70-2)	CLASS VI BUBBLE TIGHT
26	ACTUATOR TYPE / MOUNTING POSITION	PISTON, SPRING RETURN / TOP MOUNTED
27	ACTUATOR SIZE / AIR CONNECTION SIZE	50 SQIN
28	ACTUATOR ACTION	AIR TO OPEN
29	AIR SUPPLY PRESSURE MIN. / NORM. / MAX. kg/cm ² g	3,5 / 4,5 / 6,0 kg/cm ² g
30	SPRING TYPE / ACTION	DUAL SPRING / SPRING TO CLOSE
31	NUMBER OF CYCLES PER YEAR	+ / - 210000
32	VALVE DUTY ON/OFF or CONTROL	HIGH CYCLE DUTY / CONTROL
33	VALVE POSITIONER MODEL	METSO, SMART ND822A/XCT1A, EEx ia IIC T6
34	POSITIONER TYPE	SMART TYPE-ELECTRO / PNEUMATIC
35	CALIBRATED RANGE	4 - 20 mA
36	AIR SUPPLY PRESSURE / AIR CONNECTION	4,5 kg/cm ² g / 1/4" NPTF
37	AIR FILTER / REGULATOR	NOT REQUIRED
38	BOOSTER	SMC Low temperature IN 100-ND2-L
39	POSITION TRANSMITTER	INCORPORATED IN POSITIONER EEx ia IIC T6
40	TRAVEL STOP	STANDARD
41	TUBING & FITTING MATERIAL / SIZE	FOR TUBE AND FITTINGS REFER TO E-H6280-241T
42	VALVE SUPPLIER	
43	VALVE TYPE NO.	VALTEK MARK ONE ND822 / -XT 1-AL
44	REMARKS :	
45		
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C.B. Joxmatos



* - DISASSEMBLY/MAINTENANCE CLEARANCE

	A	E	F	J	K	APPROXIMATE WEIGHT
INCH	12.50	5.8	27.8	9.1	9.0	156 LBS
mm	318	147	707	232	229	70 KG

NOTE: DIMENSIONS ARE APPROXIMATE AND THIS DRAWING IS ONLY A SAMPLE NOT FOR CONSTRUCTION
END CONNECTION AND SCALING MAY NOT BE ACTUAL, FOR ACCESSORY INFORMATION, SEE ASSOCIATED SPECIFICATION SHEET.

MODEL MARK I GLOBE	ACTUATOR 50UHC	QUOTE DRAWING			
SIZE 3.00 INCH	AIR TO OPEN	DRAWN / CHECKED JSP / SPB	CUSTOMER YANOS	ITEM	
RATING / F/F STD 300/S75.08.01	FAIL CLOSE	DATE 08-10-12	VALVE TAG XCV-75053 XCV-75103	SHEET 1 OF 1	
END CONNECTION INT FLG	SPRING DUAL	THIRD ANGLE PROJECTION	P.O. NUMBER ---	REVISION 0	
TRIM TYPE UNBALANCED	TRIM NUMBER / CV 2.00/78		PROJECT VALVES FOR PSA	SERIAL NUMBER 002	