



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

AUTOMATIC BUTTERFLY VALVE**PROJECT SPECIFICATION**

Number

E-H6280-241

Rev.

3

Sheet : 4 of 15

By : F. Heyman

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1	TAG NO.	U-XV75012, 75022, 75032, 75042, 75052, 75062	
2		U-XV75072, 75082, 75092, 75102	
3	QUANTITY	10	
4	SERVICE	PRODUCT	
5	MEDIUM COMPOSITION MOLECULAR WEIGHT	HYDROGEN / H ₂ / 2,03	
6	AMBIENT TEMPERATURE MIN. / MAX.	- 46 / + 36 °C ACTUATOR POSITIONER LIMIT SW (note 1)	
7	MINIMUM DESIGN METAL TEMPERATURE	-34 °C FOR VALVE BODY AND SEALS	
8	OPERATING TEMPERATURE MIN. / MAX.	45,0 / 45,0 °C	
9	OPERATING FLOW COND. 1 / 2 / 3	6804 / 17010 / 31400 Nm ³ /h	
10	PRESSURE UPSTREAM COND. 1 / 2 / 3	38,33 / 38,32 / 38,28 kg/cm ² g	
11	DP COND. 1 / 2 / 3	0,006 / 0,042 / 0,143 kg/cm ²	
12	DP IN CLOSED POSITION	39,0 kg/cm ²	
13	REQUIRED C _v COND. 1 / 2 / 3	162 / 162 / 162	
14	VALVE BODY SIZE RATING STYLE	DN 80 / 300 lbs / DOUBLE FLANGED	
15	SELECTED CV CHARACTERISTIC	180 / ON-OFF	③
16	BODY MATERIAL	ASTM 352 LCB (-34°C)	
17	FLANGE RATING FLANGE FACE FINISH	300 lbs / SMOOTH FINISH 3.2 - 6.3 µmRA	
18	FACE TO FACE STD. FACE TO FACE LENGTH	LARGE FEMALE FACE ANSI B16.5a / 180MM	③
19	VALVE SERVICE STANDARD	PSA HIGH CYCLING DUTY	
20	VALVE CYCLIC SERVICE UNI / BI-DIRECTIONAL	UNIDIRECTIONAL	
21	VALVE INITIAL CONTROL POSITION	0 - 25%	
22	SHAFT POSITION FLOW DOWN / UPSTREAM	FLOW SHAFT DOWNSTREAM	
23	BEARINGS AND EXCLUDER RING MATERIAL	FOR HIGH CYCLE BUTTERFLY VALVE	
24	SHAFT PACKING TYPE MATERIAL	LIFE LOADED / PTFE	
25	DISC PINS SHAFT MATERIAL	ASTM A487 CA 6 NM / MFR STD / ASME 420	
26	SEAT TYPE MATERIAL	SOFT SEAT / FKM (VITON)	
27	LEAKAGE RATE (CLASS TO B16.104)	CLASS VI BUBBLE TIGHT	
28	ACTUATOR TYPE / MOUNTING POSITION	PISTON, SPRING RETURN / A-HU	③
29	ACTUATOR SIZE / AIR CONNECTION SIZE	B1JU10/40C / 3/8" NPT	③
30	ACTUATOR ACTION	AIR TO OPEN	
31	AIR SUPPLY PRESSURE MIN. / NORM. / MAX.	3,5 / 4,5 / 6,0 kg/cm ² g	
32	SPRING TYPE / ACTION	SINGLE SPRING / SPRING TO CLOSE	
33	NUMBER OF CYCLES PER YEAR	+/- 110000	
34	VALVE DUTY ON/OFF or CONTROL	HIGH CYCLE DUTY / ON-OFF	
35	VALVE POSITIONER MODEL	NOT REQUIRED	
36	POSITIONER TYPE		
37	CALIBRATED RANGE		
38	AIR SUPPLY PRESSURE / AIR CONNECTION	4,5 kg/cm ² g / NPTF	
39	AIR FILTER / REGULATOR	NOT REQUIRED	
40	SOLENOID	SOLENOID INSTALLED BY OTHERS	
41	PROXIMITY SWITCH / POSITION	STONEL SR445B5MDS	③
42	TRAVEL STOP	STANDARD	
43	TUBING & FITTING MATERIAL / SIZE	NOT REQUIRED	
44	VALVE SUPPLIER	METSO AUTOMATION	
45	VALVE TYPE NO.	3" CL300 AC25-Z- B1JU10/40C-LS	③
46	REMARKS :	note 1: Electrical Certificate for -40°C. Functional	
47		operation shall be guaranteed for -46°C ambient	

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

AUTOMATIC BUTTERFLY VALVE**PROJECT SPECIFICATION**

Number

Rev.

E-H6280-241

3

Sheet : 3 of 15

By : F. Heyman

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1	TAG NO.	U-XCV75011, 75021, 75031, 75041, 75051, 75061	
2		U-XCV75071, 75081, 75091, 75101	
3	QUANTITY	10	
4	SERVICE	FEED / REPRESSURISATION	
5	MEDIUM COMPOSITION MOLECULAR WEIGHT	FEED GAS / H ₂ , C ₁ -C ₆ , N ₂ , H ₂ O / 7,23	
6	AMBIENT TEMPERATURE MIN. / MAX.	-46 / +36 °C ACTUATOR POSITIONER LIMIT SW (note 1)	
7	MINIMUM DESIGN METAL TEMPERATURE	-34 °C FOR VALVE BODY AND SEALS	
8	OPERATING TEMPERATURE MIN. / MAX.	40,0 / 40,0 °C	
9	OPERATING FLOW COND. 1 / 2 / 3	4480 / 11870 / 36270 Nm ³ /h	
10	PRESSURE UPSTREAM COND. 1 / 2 / 3	38,99 / 38,94 / 38,88 kg/cm ² g	
11	DP COND. 1 / 2 / 3	10,523 / 9,785 / 0,033 kg/cm ²	
12	DP IN CLOSED POSITION	39,0 kg/cm ²	
13	REQUIRED C _v COND. 1 / 2 / 3	5,7 / 15,6 / 730	
14	VALVE BODY SIZE RATING STYLE	DN 150 / 300 lbs / DOUBLE FLANGED	
15	SELECTED CV CHARACTERISTIC	920 / EQUAL PERCENTAGE	③
16	BODY MATERIAL	ASTM 352 LCB (-34°C)	
17	FLANGE RATING FLANGE FACE FINISH	300 lbs / SMOOTH FINISH 3.2 - 6.3 µmRA	
18	FACE TO FACE STD. FACE TO FACE LENGTH	LARGE FEMALE FACE ANSI B16.5a / 210MM	③
19	VALVE SERVICE STANDARD	PSA HIGH CYCLING DUTY	
20	VALVE CYCLIC SERVICE UNI / BI-DIRECTIONAL	UNIDIRECTIONAL	
21	VALVE INITIAL CONTROL POSITION	0 - 25%	
22	SHAFT POSITION FLOW DOWN / UPSTREAM	FLOW SHAFT DOWNSTREAM	
23	BEARINGS AND EXCLUDER RING MATERIAL	FOR HIGH CYCLE BUTTERFLY VALVE	
24	SHAFT PACKING TYPE MATERIAL	LIFE LOADED / PTFE	
25	DISC PINS SHAFT MATERIAL	ASTM A487 CA 6 NM / MFR STD / ASME 420	
26	SEAT TYPE MATERIAL	SOFT SEAT / FKM (VITON)	
27	LEAKAGE RATE (CLASS TO B16.104)	CLASS VI BUBBLE TIGHT	
28	ACTUATOR TYPE / MOUNTING POSITION	PISTON, SPRING RETURN / C-HU	③
29	ACTUATOR SIZE / AIR CONNECTION SIZE	B1JU12-55C / 1/2" NPT	
30	ACTUATOR ACTION	AIR TO OPEN	
31	AIR SUPPLY PRESSURE MIN. / NORM. / MAX.	3,5 / 4,5 / 6,0 kg/cm ² g	
32	SPRING TYPE / ACTION	SINGLE SPRING / SPRING TO CLOSE	
33	NUMBER OF CYCLES PER YEAR	+/- 105120	
34	VALVE DUTY ON/OFF or CONTROL	HIGH CYCLE DUTY / CONTROL	
35	VALVE POSITIONER MODEL	METSO, SMART ND8221/XC EEx ia IIC T6	
36	POSITIONER TYPE	SMART ELECTRO / PNEUMATIC	
37	CALIBRATED RANGE	4 - 20 mA	
38	AIR SUPPLY PRESSURE / AIR CONNECTION	4,5 kg/cm ² g / NPTF	
39	AIR FILTER / REGULATOR	NOT REQUIRED	
40	BOOSTER	MOORE 61H 1/4"NPT	③
41	VALVE POSITION TRANSMITTER	0-100 % INCORPORATED IN POSITIONER EEx ia IIC T6	
42	TRAVEL STOP	STANDARD	
43	TUBING & FITTING MATERIAL / SIZE	FOR TUBE AND FITTINGS REFER TO E-H6280-241T	
44	VALVE SUPPLIER	METSO AUTOMATION	
45	VALVE TYPE NO.	6" CL300 AC25 B1JU12/55C ND8221/CXTS1Y-L-Instr	③
46	REMARKS :	note 1: Electrical Certificate for -40°C. Functional	
47		operation shall be guaranteed for -46°C ambient	

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

AUTOMATIC GLOBE VALVE**PROJECT SPECIFICATION**

Number E-H6280-240
Sheet : 3 of 5
By : F. Heyman

Rev.

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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 / +36 °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	FLOWERVE
43	VALVE TYPE NO.	VALTEK MARK ONE ND822 / -XT 1-AL
44	REMARKS :	
45		
46		

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

AUTOMATIC BUTTERFLY VALVE**PROJECT SPECIFICATION**

Number

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Rev.

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Sheet : 5 of 15

By : F. Heyman

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1	TAG NO.	U-XCV75014, 75024, 75034, 75044, 75054, 75064	
2		U-XCV75074, 75084, 75094, 75104	
3	QUANTITY	10	
4	SERVICE	DUMP / PURGE	
5	MEDIUM COMPOSITION MOLECULAR WEIGHT	OFF GAS / H ₂ , C ₁ -C ₆ , C ₁ , N ₂ , H ₂ O / 21,79	
6	AMBIENT TEMPERATURE MIN. / MAX.	- 46 / + 36 °C ACTUATOR POSITIONER LIMIT SW (note 1)	
7	MINIMUM DESIGN METAL TEMPERATURE	-34 °C FOR VALVE BODY AND SEALS	
8	OPERATING TEMPERATURE MIN. / MAX.	30,0 / 30,0 °C	
9	OPERATING FLOW COND. 1 / 2 / 3	2520 / 2930 / 6320 Nm ³ /h	
10	PRESSURE UPSTREAM COND. 1 / 2 / 3	5,66 / 1,56 / 5,65 kg/cm ² g	
11	DP COND. 1 / 2 / 3	4,028 / 0,010 / 3,895 kg/cm ²	
12	DP IN CLOSED POSITION	39,0 kg/cm ²	
13	REQUIRED C _v COND. 1 / 2 / 3	23,5 / 730 / 59	
14	VALVE BODY SIZE RATING STYLE	DN 150 / 300 lbs / DOUBLE FLANGED	
15	SELECTED C _v CHARACTERISTIC	920 / EQUAL PERCENTAGE	
16	BODY MATERIAL	ASTM 352 LCB (-34°C)	
17	FLANGE RATING FLANGE FACE FINISH	300 lbs / SMOOTH FINISH 3.2 - 6.3 µmRA	
18	FACE TO FACE STD. FACE TO FACE LENGTH	LARGE FEMALE FACE ANSI B16.5a / 210MM	③
19	VALVE SERVICE STANDARD	PSA HIGH CYCLING DUTY	
20	VALVE CYCLIC SERVICE UNI / BI-DIRECTIONAL	UNIDIRECTIONAL	
21	VALVE INITIAL CONTROL POSITION	0 - 25%	
22	SHAFT POSITION FLOW DOWN / UPSTREAM	FLOW SHAFT DOWNSTREAM	
23	BEARINGS AND EXCLUDER RING MATERIAL	FOR HIGH CYCLE BUTTERFLY VALVE	
24	SHAFT PACKING TYPE MATERIAL	LIFE LOADED / PTFE	
25	DISC PINS SHAFT MATERIAL	ASTM A487 CA 6 NM / MFR STD / ASME 420	
26	SEAT TYPE MATERIAL	SOFT SEAT / FKM (VITON)	
27	LEAKAGE RATE (CLASS TO B16.104)	CLASS VI BUBBLE TIGHT	
28	ACTUATOR TYPE / MOUNTING POSITION	PISTON, SPRING RETURN / C-HU	③
29	ACTUATOR SIZE / AIR CONNECTION SIZE	B1JU10-40C / 3/8" NPT	③
30	ACTUATOR ACTION	AIR TO OPEN	
31	AIR SUPPLY PRESSURE MIN. / NORM. / MAX.	3,5 / 4,5 / 6,0 kg/cm ² g	
32	SPRING TYPE / ACTION	SINGLE SPRING / SPRING TO CLOSE	
33	NUMBER OF CYCLES PER YEAR	+ / - 105120	
34	VALVE DUTY ON/OFF or CONTROL	HIGH CYCLE DUTY / CONTROL	
35	VALVE POSITIONER MODEL	METSO, SMART ND8261XC EEx ia IIC T6	
36	POSITIONER TYPE	SMART ELECTRO / PNEUMATIC	
37	CALIBRATED RANGE	4 - 20 mA	
38	AIR SUPPLY PRESSURE / AIR CONNECTION	4,5 kg/cm ² g / NPTF	
39	AIR FILTER / REGULATOR	NOT REQUIRED	
40	BOOSTER	NOT REQUIRED	
41	VALVE POSITION TRANSMITTER	0-100 % INCORPORATED IN POSITIONER EEx ia IIC T6	
42	TRAVEL STOP	STANDARD	
43	TUBING & FITTING MATERIAL / SIZE	FOR TUBE AND FITTINGS REFER TO E-H6280-241T	
44	VALVE SUPPLIER	METSO AUTOMATION	
45	VALVE TYPE NO.	6" CL300 AC25 B1JU12/55C ND8261/ CXTS1Y-L-I	③
46	REMARKS :	note 1: Electrical Certificate for -40°C. Functional	
47		operation shall be guaranteed for -46°C ambient	

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PROJECT SPECIFICATION

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Sheet : 6 of 15

By : F. Heyman

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VAUTOMATIC BUTTERFLY VALVE

1	TAG NO.	U-XCV75015, 75025, 75035, 75045, 75075, 75085	
2		U-XCV75075, 75085, 75095, 75105	
3	QUANTITY	10	
4	SERVICE	EQUALISATION 1 & 2	
5	MEDIUM COMPOSITION MOLECULAR WEIGHT	HYDROGEN / H ₂ / 2,03	
6	AMBIENT TEMPERATURE MIN. / MAX.	-46 / +36 °C ACTUATOR POSITIONER LIMIT SW (note 1)	
7	MINIMUM DESIGN METAL TEMPERATURE	-34 °C FOR VALVE BODY AND SEALS	
8	OPERATING TEMPERATURE MIN. / MAX.	45,0 / 45,0 °C	
9	OPERATING FLOW COND. 1 / 2 / 3	15830 / 35230 / 41980 Nm ³ /h	
10	PRESSURE UPSTREAM COND. 1 / 2 / 3	28,95 / 20,75 / 29,50 kg/cm ² g	
11	DP COND. 1 / 2 / 3	0,051 / 5,731 / 6,118 kg/cm ²	
12	DP IN CLOSED POSITION	39,0 kg/cm ²	
13	REQUIRED C _v COND. 1 / 2 / 3	162 / 46,6 / 45,0	
14	VALVE BODY SIZE RATING STYLE	DN 80 / 300 lbs / DOUBLE FLANGED	
15	SELECTED CV CHARACTERISTIC	180 / EQUAL PERCENTAGE	③
16	BODY MATERIAL	ASTM 352 LCB (-34°C)	
17	FLANGE RATING FLANGE FACE FINISH	300 lbs / SMOOTH FINISH 3.2 - 6.3 µmRA	
18	FACE TO FACE STD. FACE TO FACE LENGTH	LARGE FEMALE FACE ANSI B16.5a / 180MM	③
19	VALVE SERVICE STANDARD	PSA HIGH CYCLING DUTY	
20	VALVE CYCLIC SERVICE UNI / BI-DIRECTIONAL	BI-DIRECTIONAL	
21	VALVE INITIAL CONTROL POSITION	0 - 25%	
22	SHAFT POSITION FLOW DOWN / UPSTREAM	FLOW SHAFT DOWNSTREAM	
23	BEARINGS AND EXCLUDER RING MATERIAL	FOR HIGH CYCLE BUTTERFLY VALVE	
24	SHAFT PACKING TYPE MATERIAL	LIFE LOADED / PTFE	
25	DISC PINS SHAFT MATERIAL	ASTM A487 CA 6 NM / MFR STD / ASME 420	
26	SEAT TYPE MATERIAL	SOFT SEAT / FKM (VITON)	
27	LEAKAGE RATE (CLASS TO B16.104)	CLASS VI BUBBLE TIGHT	
28	ACTUATOR TYPE / MOUNTING POSITION	PISTON, SPRING RETURN / A-HU	③
29	ACTUATOR SIZE / AIR CONNECTION SIZE	B1JU10/40C / 3/8" NPT	
30	ACTUATOR ACTION	AIR TO OPEN	
31	AIR SUPPLY PRESSURE MIN. / NORM. / MAX.	3,5 / 4,5 / 6,0 kg/cm ² g	
32	SPRING TYPE / ACTION	SINGLE SPRING / SPRING TO CLOSE	
33	NUMBER OF CYCLES PER YEAR	+/- 210240	
34	VALVE DUTY ON/OFF or CONTROL	HIGH CYCLE DUTY / CONTROL	
35	VALVE POSITIONER MODEL	METSO, SMART ND8221/XC EEx ia IIC T6	
36	POSITIONER TYPE	SMART ELECTRO / PNEUMATIC	
37	CALIBRATED RANGE	4 - 20 mA	
38	AIR SUPPLY PRESSURE / AIR CONNECTION	4,5 kg/cm ² g / NPTF	
39	AIR FILTER / REGULATOR	NOT REQUIRED	
40	BOOSTER	QUICK EXHAUST REXROTH P52935-0002	③
41	PROXIMITY SWITCH / POSITION	0-100 % INCORPORATED IN POSITIONER EEx ia IIC T6	
42	TRAVEL STOP	STANDARD	
43	TUBING & FITTING MATERIAL / SIZE	FOR TUBE AND FITTINGS REFER TO E-H6280-241T	
44	VALVE SUPPLIER	METSO AUTOMATION	
45	VALVE TYPE NO.	3" CL300 MAPAG AC25-Z-B1JU10/40C ND8221/ CXS1Y-L-Instr	③
46	REMARKS :	note 1: Electrical Certificate for -40°C. Functional	
47		operation shall be guaranteed for -46°C ambient	

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

AUTOMATIC BUTTERFLY VALVE**PROJECT SPECIFICATION**

Number E-H6280-241 Rev. 3
Sheet : 7 of 15
By : F. Heyman

REV

1	TAG NO.	U-XCV75016, 75026, 75036, 75046, 75056	
2			
3	QUANTITY	5	
4	SERVICE	EQUALISATION 3	
5	MEDIUM COMPOSITION MOLECULAR WEIGHT	HYDROGEN / H ₂ / 2,03	
6	AMBIENT TEMPERATURE MIN. / MAX.	-46 / +36 °C ACTUATOR POSITIONER LIMIT SW (note 1)	
7	MINIMUM DESIGN METAL TEMPERATURE	-34 °C FOR VALVE BODY AND SEALS	
8	OPERATING TEMPERATURE MIN. / MAX.	45.0 / 45.0 °C	
9	OPERATING FLOW COND. 1 / 2 / 3	12300 / 24260 / 30480 Nm ³ /h	
10	PRESSURE UPSTREAM COND. 1 / 2 / 3	7,85 / 13,26 / 17,94 kg/cm ² g	
11	DP COND. 1 / 2 / 3	0,041 / 2,998 / 4,375 kg/cm ²	
12	DP IN CLOSED POSITION	39,0 kg/cm ²	
13	REQUIRED C _v COND. 1 / 2 / 3	162 / 42 / 162	
14	VALVE BODY SIZE RATING STYLE	DN 80 / 300 lbs / DOUBLE FLANGED	
15	SELECTED CV CHARACTERISTIC	180 / EQUAL PERCENTAGE	③
16	BODY MATERIAL	ASTM 352 LCB (-34°C)	
17	FLANGE RATING FLANGE FACE FINISH	300 lbs / SMOOTH FINISH 3.2 - 6.3 µmRA	
18	FACE TO FACE STD. FACE TO FACE LENGTH	LARGE FEMALE FACE ANSI B16.5a / 180MM	③
19	VALVE SERVICE STANDARD	PSA HIGH CYCLING DUTY	
20	VALVE CYCLIC SERVICE UNI / BI-DIRECTIONAL	BI-DIRECTIONAL	
21	VALVE INITIAL CONTROL POSITION		
22	SHAFT POSITION FLOW DOWN / UPSTREAM	FLOW SHAFT DOWNSTREAM	
23	BEARINGS AND EXCLUDER RING MATERIAL	FOR HIGH CYCLE BUTTERFLY VALVE	
24	SHAFT PACKING TYPE MATERIAL	LIFE LOADED / PTFE	
25	DISC PINS SHAFT MATERIAL	ASTM A487 CA 6 NM / MFR STD / ASME 420	
26	SEAT TYPE MATERIAL	SOFT SEAT / FKM (VITON)	
27	LEAKAGE RATE (CLASS TO B16.104)	CLASS VI BUBBLE TIGHT	
28	ACTUATOR TYPE / MOUNTING POSITION	PISTON, SPRING RETURN / C-HU	③
29	ACTUATOR SIZE / AIR CONNECTION SIZE	B1JU10/40C / 3/8" NPT	
30	ACTUATOR ACTION	AIR TO OPEN	
31	AIR SUPPLY PRESSURE MIN. / NORM. / MAX.	3,5 / 4,5 / 6,0 kg/cm ² g	
32	SPRING TYPE / ACTION	SINGLE SPRING / SPRING TO CLOSE	
33	NUMBER OF CYCLES PER YEAR	+/- 210240	
34	VALVE DUTY ON/OFF or CONTROL	HIGH CYCLE DUTY / CONTROL	
35	VALVE POSITIONER MODEL	METSO, SMART ND8221/XC EEx ia IIC T6	
36	POSITIONER TYPE	SMART ELECTRO / PNEUMATIC	
37	CALIBRATED RANGE	4 - 20 mA	
38	AIR SUPPLY PRESSURE / AIR CONNECTION	4,5 kg/cm ² g / NPTF	
39	AIR FILTER / REGULATOR	NOT REQUIRED	
40	BIOOSTER	QUICK EXHAUST REXROTH P52935-0002	③
41	PROXIMITY SWITCH / POSITION	0-100 % INCORPORATED IN POSITIONER EEx ia IIC T6	
42	TRAVEL STOP	STANDARD	
43	TUBING & FITTING MATERIAL / SIZE	FOR TUBE AND FITTINGS REFER TO E-H6280-241T	
44	VALVE SUPPLIER	METSO AUTOMATION	
45	VALVE TYPE NO.	3" CL300 MAPAG AC25 B1JU10/40C- ND8221/ CXS1Y-I-Instr	③
46	REMARKS :	note 1: Electrical Certificate for -40°C. Functional	
47		operation shall be guaranteed for -46°C ambient	

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