


# SECTION 6.1\_DST-50

## N<sup>2</sup> BLANKETING VALVE

### INTRODUCTION

 **The model DST-50**, N<sup>2</sup> Blanket gas controller, helps gas pressure to maintain in constant state in the vapor space of storage Tanks. When liquid run out from storage vessel or vacuum state take place because of temperature dropping, N<sup>2</sup> Blanket gas controller has a ability of control desired pressure within the fixed limits. Besides above subjects, prevents air and humidity from entering into storage vessel, So it can preserve products, and also protect from a fire. It protects the tank from explosion by restricting spark. It prevents the outflow of fluid by evaporation.

### Blanketing Capacity

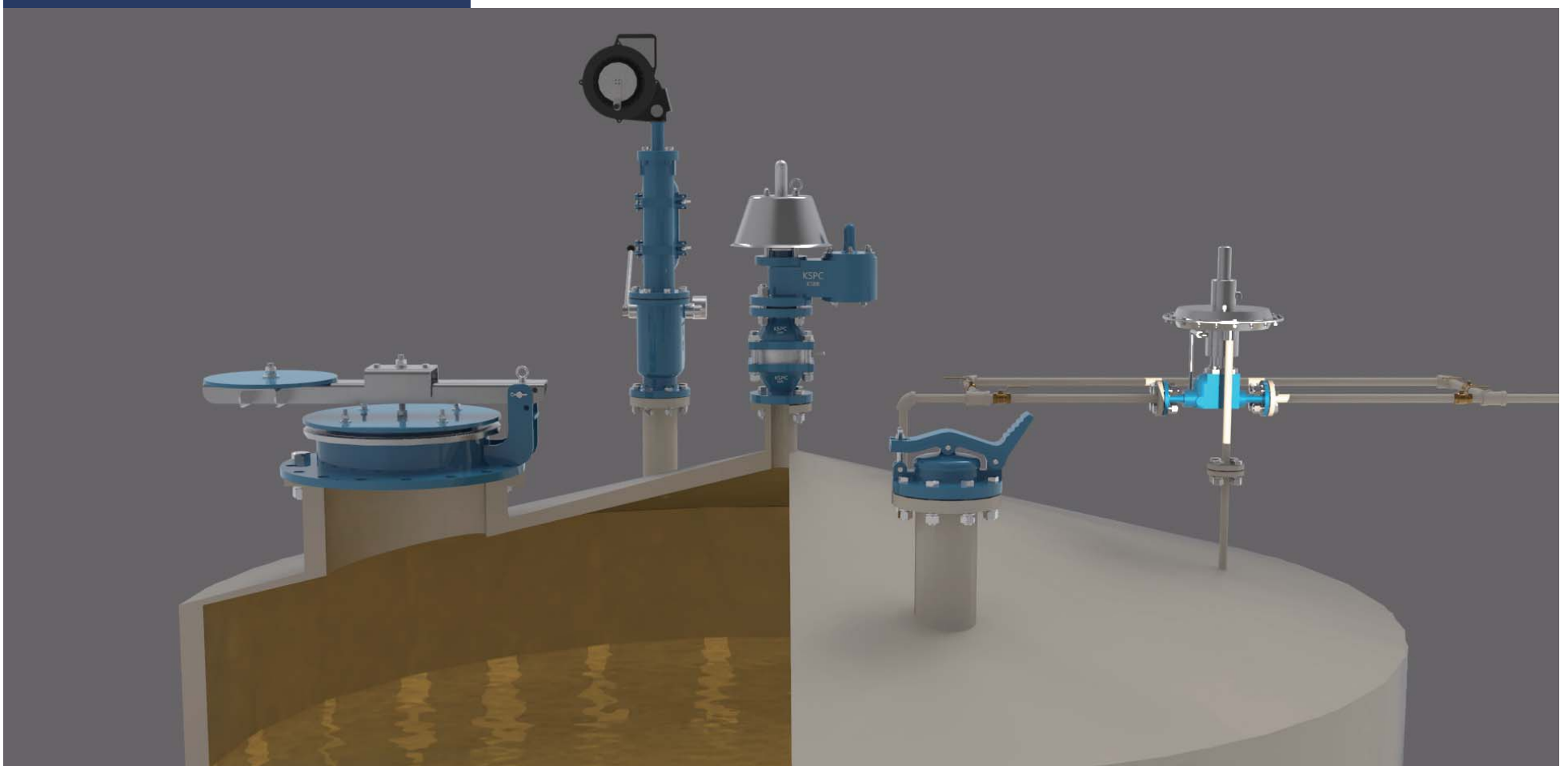
DST-50 (DN 15 ~ DN 25)	Min. 10 ~ Max. 55 Nm <sup>3</sup> /hr for Nitrogen
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 **Body Materials** SS304 and SS316 with various trims

 **Sizes range** DN 15, 20, 25 with ASME 150Lb flanges (Other connection all available)

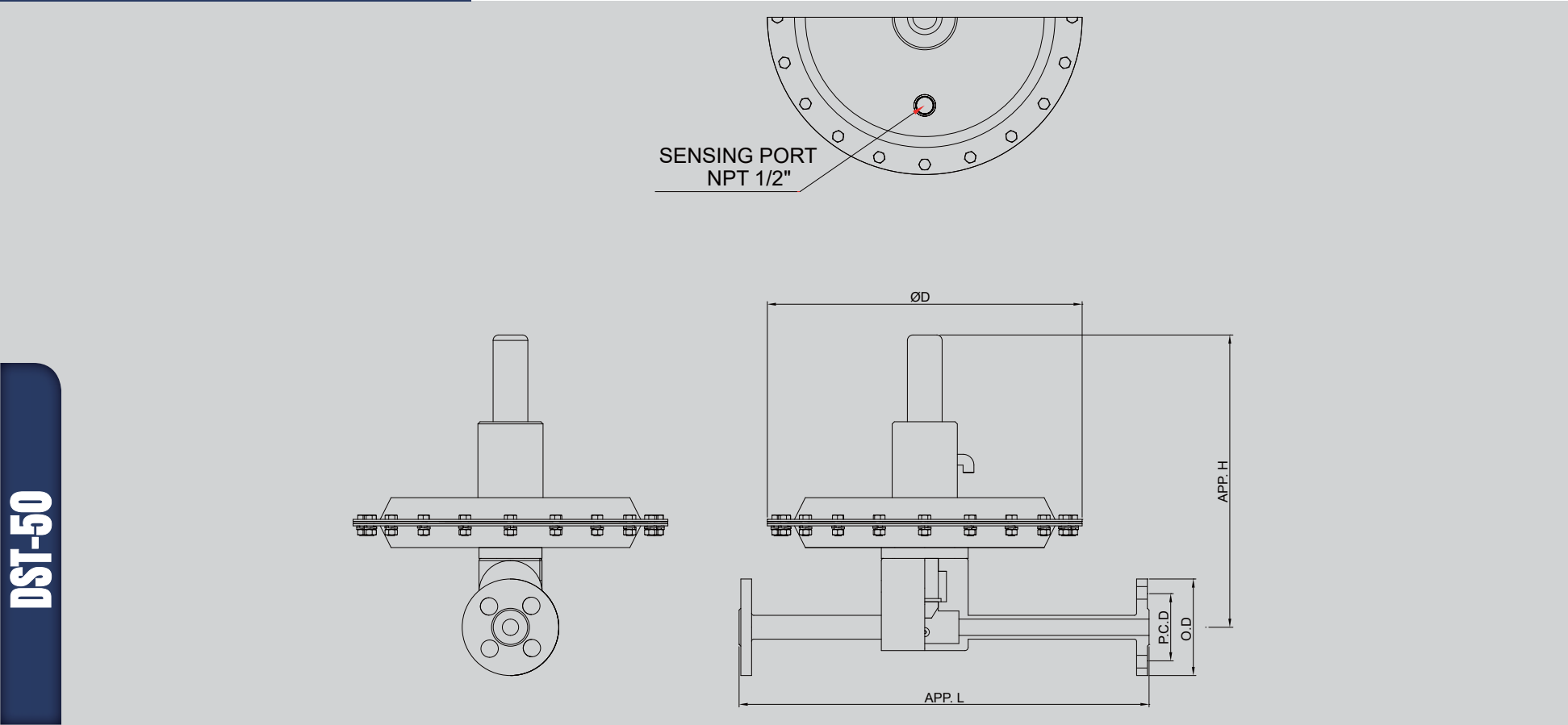
 **Rules & Certifications** API 2000 7<sup>th</sup> Edition - "Calculation for Highest requirements with no flame arrester for Inert-gas-Blanketing"

### APPLICATION





OUTLINE DRAWING



DIMENSION TABLE

SIZE	DST-50		
	1/2" (15A)	3/4" (20A)	1" (25A)
N.D	15	20	25
App. L	335	335	335
App. H	205	205	205
P.C.D	70	75	90
O.D	95	100	125
ØD	260	260	260
N-Ød	4-Ø15	4-Ø15	4-Ø19

**NOTE** Standard Connection(ASME 150Lb flange) and JIS or different types are available upon request.

CAPACITY TABLE

INPUT PRESSURE (kg/cm <sup>2</sup> G)		1.5	2	2.5	3	3.5	4	4.5	5	6	6.5
Capacity in Nm <sup>3</sup> /hr for Nitrogen	DST 50 (1/2" ~ 1")	10	12	14	16	18	20	22	24	27.5	30

INPUT PRESSURE (kg/cm <sup>2</sup> G)		7	7.5	8	8.5	9	9.5	10	11	12	13
Capacity in Nm <sup>3</sup> /hr for Nitrogen	DST 50 (1/2" ~ 1")	31	33	35	37	39	41	43	47	51	55

GENERAL SPECIFICATION

MODEL	DST-50
SIZE	1/2" ~ 1"
SET PRESSURE	30 ~ 5000mmW.C
CONNECTION	FNPT / ASME 150# & 300#, Etc
MATERIAL	SS304, SS316, Etc.
USED GAS	N2 (Nitrogen)
SENSING PORT	NPT 1/2"

TECHNICAL SPECIFICATION

SET PRESSURE		MINIMUM INLET PRESSURE	TEMP.
1.2 ~ 1.4" W.C	1.3 ~ 3.1 psi	22 psi ( 1.5 kg/cm <sup>2</sup> G )	-20 to +149℃
3.5 ~ 10" W.C	2.3 ~ 3.5 psi		
8 ~ 18" W.C	3.0 ~ 6.0 psi		