



Mokveld Valves bv

Calculation

Client : Lurgi Oel Gas Chemie
P.O. no. : 688 F 38 PO 1543 02 00 3030
End user :
P.O. no. :

Document no. : 38292-004
Rev. : 0
Dated : 20/06/05

Prepared : CGLIN
Checked : EQUA
Approved : HDJO

<u>Mokveld serial no.</u>	<u>Location</u>
38292-001	MUG-20-02-001

approved Rue 23 Juni 2005
[Signature]



Mokveld valves

Mokveld TKZ-Y Checkvalve Calculation

v5.1

GAS 20-jun-05

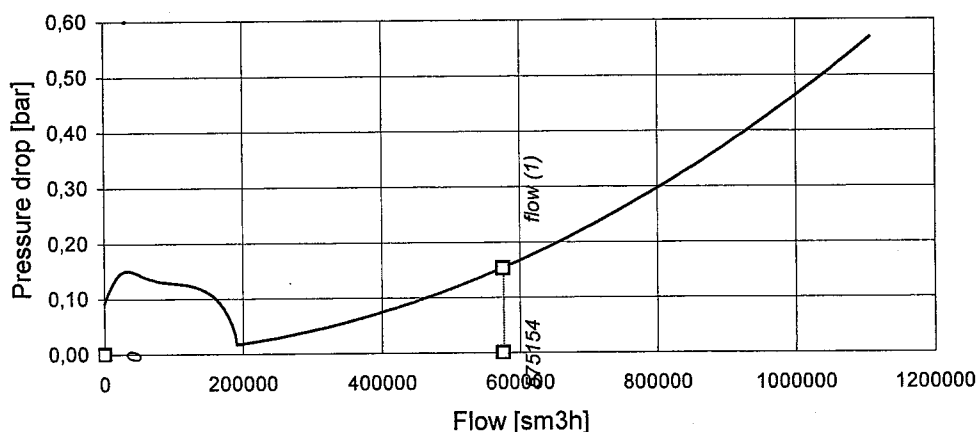
Client..... Lurgi AG
Reference..... 2nd Megamethanol plant Iran
Valve type..... TKZ-Y-0
Flange size..... 16 [inch]
Pressure rating..... 900 (ANSI)
Spring number..... 2
Spring identification..... F 808-577

Valve internally coated..... no
Medium..... Make up gas

Pressure..... 76,6 [bara]
Temperature..... 147 [deg C]
Density..... 11,4 [MW]
Compressibility Z 1,038 [-]

Valve pressure loss coefficient..... 1,09 [-]
Valve fully opened at..... 191023 [sm3h]
flow (1) [Nm3/H] [sm3h] dP[bara] v [m/s]
544.190 575154 0,15 33,9

Pressure drop curve



approved: Rue 23. Juni 2005
[Signature]



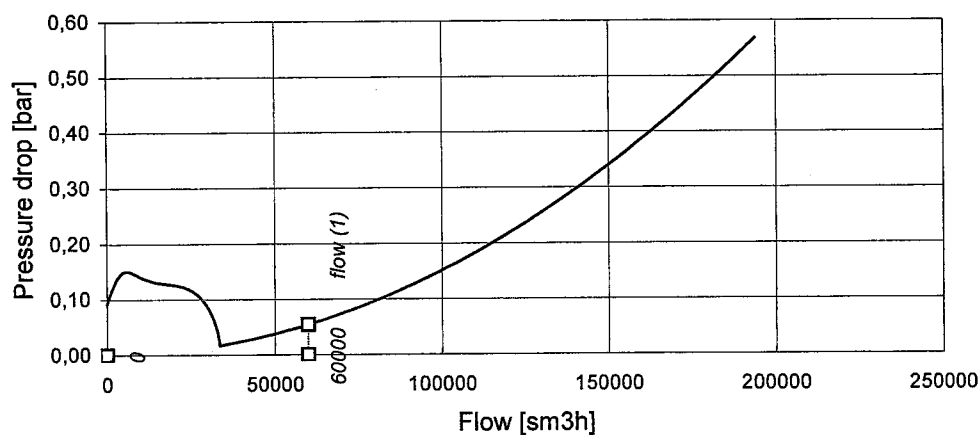
Client..... Lurgi AG
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Valve type..... TKZ-Y-0
Flange size..... 16 [inch]
Pressure rating..... 900 (ANSI)
Spring number..... 2
Spring identification..... F 808-577

Valve internally coated..... no
Medium..... Make up gas

Pressure..... 6 [bara]
Temperature..... 180 [deg C]
Density..... 28 [MW]
Compressibility Z 1 [-]

Valve pressure loss coefficient..... 1,09 [-]
Valve fully opened at..... 33465 [sm3h]
[Nm3/H] [sm3h] dP[bara] v [m/s]
flow (1) 56.770 60000 0,05 46,9

Pressure drop curve



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v5.1

GAS 20-jun-05

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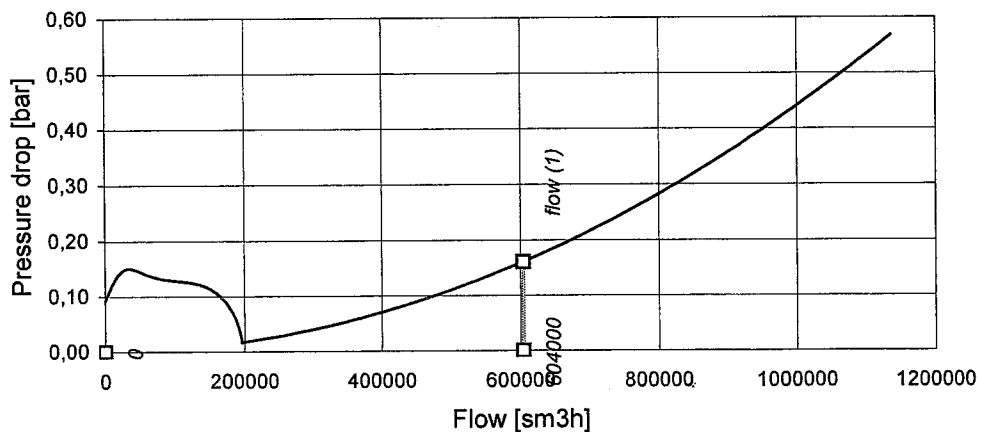
Valve internally coated..... no
Medium..... Make up gas

Pressure..... 82,8 [bara]
Temperature..... 157 [deg C]
Density..... 11,4 [MW]
Compressibility Z 1,041 [-]

Valve pressure loss coefficient..... 1,09 [-]
Valve fully opened at..... 195998 [sm3h]

	[Nm3/H]	[sm3h]	dP[bara]	v [m/s]
flow (1)	571.483	604000	0,16	33,8

Pressure drop curve



approved Rue 23. Juni 2005

[Signature]