

EMERSON AUTOMATION SOLUTIONS					Pressure Relief Valve Sizing & Selection Report					
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Quote Number:					No	Prpd.	Chk.	Appr.	Date	Revision
Client: NUOVO PIGNONE S.P.A.					End-User Ref. No.:					
Location:					Project Ref. No.:					
Project: RFQ OFFLINE RVO49518										
Valve ID					SIZING DATA					
Tag No. RVO49518					Design Code ASME Section VIII Sizing Std. API 520					
Service					Sizing Basis Blocked Discharge					
PID No.					Fluid State at Inlet Liquid					
Line No.					Relieving Case Pressure Relief					
Quantity 1					Fluid Properties					
GENERAL					Fluid Name OIL					
Valve Type Balanced Spindle, DSO, Plastic Seat					Sp. Gravity, G 0,87					
Safety / Relief Safety Relief Balanced Yes					Viscosity 25,00000 cP					
Nozzle Semi Bonnet Vented					Reynolds No.					
					Reynolds No. (max) 7784,30					
CONNECTIONS										
Inlet 3/4" Flngd. 300# RF Standard										
Outlet 1" Flngd. 300# RF ASME B16.5										
MATERIALS OF CONSTRUCTION										
Body CS SA216-WCB										
Inlet Bushing CS A105										
Bonnet N/A										
Cap CS A108-12L14										
Nozzle SS A479-316										
Seat Teflon®										
Seals Buna-N										
Spindle SS A479-316										
Guide SS A479-316										
Spring SS A313-316										
Cap Type Screwed										
NACE MR0175/ISO 15156:2015 No										
Accessories					Sizing Coefficients					
					Unit -					
					K, Liquid Kd, Liquid 0,72 0,8					
					Kw Kc 1,0 1,0					
					Kv Kv (max) 0,974					
					Required Capacity					
					Unit					
					Total					
					Pressures					
					Unit barg					
					MAWP Operating					
					Set CDT 10 10					
					Over Pressure 1,0 10%					
					Built-Up					
					Back Pressure Constant Superimposed 0					
					Variable Superimposed 0					
					Total 0					
					Inlet Loss 0 0%					
					Atmospheric (Barometric) 14,696 psia					
					Temperatures					
					Unit °C					
					Normal System					
					Operating Relieving					
					Design Min Design Max 40					
1. UV Stamp					Valve Dimensions					
					in A 4,72					
					B 4,75					
					C 12,02					
					lb Weight 15					

Printed On: 1-giu-2021

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