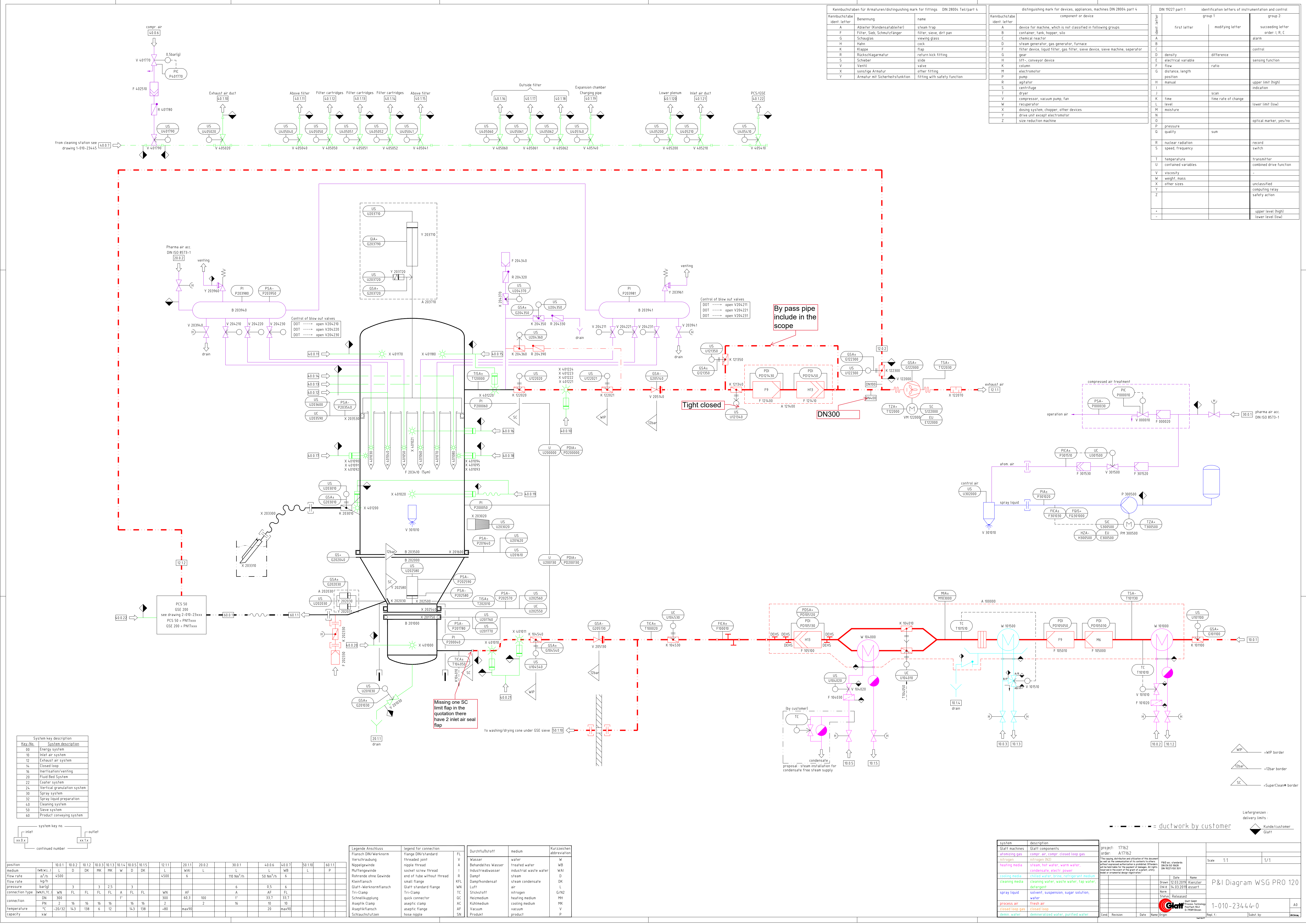




Kennbuchstaben für Armaturen/distinguishing mark for fittings		
DN 28004 Teil/part 4		
Kennbuchstabe ident. letter	Benennung name	name
A	Abstreifer (Kondensatabstreifer)	steam trap
F	Filter, Sieb, Schutzflanger	filter, sieve, dirt pan
H	Schauglas	viewing glass
K	Hahn	cock
R	Klappe	flap
S	Rückschlagarmatur	return kick fitting
V	Schieber	slide
V	Ventil	valve
X	sonstige Armatur	other fitting
Y	Armatur mit Sicherheitsfunktion	fitting with safety function

distinguishing mark for devices, appliances, machines DIN 28004 part 4		
component or device		
Kennbuchstabe ident. letter	component or device	
A	device for machine, which is not classified in following groups	
B	container, tank, hopper, silo	
C	chemical reactor	
D	steam generator, gas generator, furnace	
F	filter device, liquid filter, gas filter, sieve device, sieve machine, separator	
G	gear	
H	lift-, conveyor device	
K	column	
M	electromotor	
P	pump	
R	agitator	
S	centrifuge	
T	dryer	
V	compressor, vacuum pump, fan	
W	recuperator	
X	dosing system, chopper, other devices	
Y	drive unit except electromotor	
Z	size reduction machine	

DIN 19227 part 1 identification letters of instrumentation and control			
ident. letter	group 1		group 2
	first letter	modifying letter	succeeding letter order: L, R, C
A			alarm
B			control
C			
D	density	difference	
E	electrical variable		sensing function
F	flow	ratio	
G	distance, length		
H	position		
I	manual		upper limit (high)
J			indication
K	time	scan	
L	level	time rate of change	
M	moisture		lower limit (low)
N			
O			optical marker, yes/no
P	pressure		
Q	quality	sum	
R	nuclear radiation		record
S	speed, frequency		switch
T	temperature		transmitter
U	contained variables		combined drive function
V	viscosity		
W	weight, mass		
X	other sizes		unclassified
Y			computing relay
Z			safety action
+			upper level (high)
-			lower level (low)

System key description	
Key-No.	System description
00	Energy system
10	Intert air system
12	Exhaust air system
14	Closed loop
16	Inertification/venting
20	Fluid Bed System
22	Coater system
24	Vertical granulation system
30	Spray system
32	Spray liquid preparation
40	Cleaning system
50	Sieve system
60	Product conveying system

system key no.	
xx.0.x	inlet
xx.1.x	outlet
xx.2.x	continued number

Legende Anschluss	
Flansch DIN Werknorm	flange DIN/standard
Verschraubung	threaded joint
Nippelgewinde	nipple thread
Muffengewinde	socket screw thread
Reifende ohne Gewinde	end of tube without thread
Kleinfansch	small flange
Glatt-Werknormflansch	Glatt standard flange
Tri-Clamp	Tri-Clamp
Schnellkupplung	quick connector
Aseptik Clamp	aseptic clamp
Aseptikflansch	aseptic flange
Schlauchschutzen	hose nipple

legend for connection	
FL	flange DIN/standard
V	threaded joint
A	nipple thread
I	socket screw thread
R	end of tube without thread
KFL	small flange
WN	Glatt standard flange
TC	Tri-Clamp
QC	quick connector
AC	aseptic clamp
AF	aseptic flange
SN	hose nipple

Durchflutstoff	
Wasser	water
Behandeltes Wasser	treated water
Industrieabwasser	industrial waste water
Dampf	steam
Dampf/kondensat	steam condensate
Luft	air
Stickstoff	nitrogen
Heizmedium	heating medium
Kuhlmedium	cooling medium
Vacuum	vacuum
Produkt	product

Nurzeichen	
W	water
WB	treated water
WM	industrial waste water
D	steam
DK	steam condensate
L	air
G/N2	nitrogen
MH	heating medium
MK	cooling medium
V	vacuum
P	product

system	description
Gratt machines	Gratt components
atomizing gas	compr. air, compr. closed loop gas
nitrogen	nitrogen (N2)
heating media	steam, hot water, warm water, condensate, electric power
cooling media	chilled water, brine, refrigerant, medium
cleaning media	cleaning water, waste water, tap water, detergent
spray liquid	solvent, suspension, sugar solution, water
process air	fresh air
closed loop gas	closed loop
demin. water	demineralized water, purified water

project: 17162	order: A17162
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Date	Name
Drawn: 12.03.2019	Kienster
Chk'd: 16.03.2019	essert
Status	Released

Scale: 1:1	1/1
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1-010-2344-0	A0
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Liefergrenzen delivery limits

--- = ductwork by customer

Kunde/Customer

Glatt