



24	DIN127-M16-SI	WASHER M16	SI	140	1.4
23	DIN125-M16-ST	WASHER M16	ST	280	2.8
22	DIN933-M16x110-8.8	BOLT M16x110		8.8	16
21	DIN933-M16x100-8.8	BOLT M16x100		8.8	12
20	DIN933-M16x75-8.8	BOLT M16x75		8.8	112
19	DIN 2690	GASKET - KLINGERSIL C-4430 - 3 THK - DN80	FIBERGLASS WINBR	19	0
18	DIN 2690	GASKET - KLINGERSIL C-4430 - 3 THK - DN50	FIBERGLASS WINBR	4	0
17	EN 10216-1 - P235TR1	TUBE 3" - 3.2 THK - SEAMLESS	CARBON STEEL	9768mm	0
16	EN 10216-1 - P235TR1	TUBE 2" - 2.9 THK - SEAMLESS	CARBON STEEL	152mm	0
15	EN 10216-1 - P235TR1	TUBE 1 1/4" - 1.8 THK - SEAMLESS	CARBON STEEL	303mm	0
14	2258-3321-TMT-ESR20-GEN05	SUPPORT 5	S275JR	1	2.78
13	2258-3321-TMT-ESR20-GEN04	SUPPORT 4	S275JR	2	9.44
12	2258-3321-TMT-ESR20-GEN03	SUPPORT 3	S275JR	3	7.59
11	2258-3321-TMT-ESR20-GEN02	SUPPORT 2	S275JR	2	13.02
10	2258-3321-TMT-ESR20-GEN01	SUPPORT 1	S275JR	4	14.72

9	PID 920	COMPENSATOR DN 80 FOR GAS, AIR AND WATER, PE MAX. 10 BAR EXECUTION WITH LOOSE FLANGES DRILLED ACCORDING TO DIN 2501 PN 10 DIN/DVSM TESTED AND REGISTERED OPERATING TEMPERATURE: - FOR AIR: -20°C BIS +500°C - FOR GAS: -20°C BIS +150°C - FOR WATER: 0° BIS +100°C	COMMERCIAL	2	21
8	PID 930	CONTROL VALVE, MANUAL ADJUSTMENT REGULATING RATIO 10:1 EC TYPE EXAMINATION CERTIFICATE FOR MEDIUM TEMPERATURE RANGE - -20°C BIS +400°C INTERMEDIATE FLANGE FLAP.	COMMERCIAL	2	9.52
7	PID 900+910	DOUBLE SHUT OFF VALVE 230 VAC, AS GAS SAFETY SHUT OFF VALVE ACC EN161 CLASS A 1ST VALVE FAST OPEN / FAST CLOSE, 2ND VALVE SLOW OPEN / FAST CLOSE FLOW ADJUSTABLE SOLENOID ACTUATOR 230 VAC 50/60 HZ, 24 VDC LIMIT SWITCH ELECTRICAL CONNECTION M20 MAX OPERATION PRESSURE 500 MBAR IP 65 EG CERTIFICATE.	COMMERCIAL	1	71.25
6	PID 900+910	DOUBLE SHUT OFF VALVE 230 VAC, AS GAS SAFETY SHUT OFF VALVE ACC EN161 CLASS A 1ST VALVE FAST OPEN / FAST CLOSE, 2ND VALVE SLOW OPEN / FAST CLOSE FLOW ADJUSTABLE SOLENOID ACTUATOR 230 VAC 50/60 HZ, 24 VDC LIMIT SWITCH ELECTRICAL CONNECTION M20 MAX OPERATION PRESSURE 500 MBAR IP 65 EG CERTIFICATE.	COMMERCIAL	1	71.25
5	PID 870	MANUAL OPERATION IN GAS, AIR, WATER AND OIL RP THREAD - PE MAX 58BAR ENVIRONMENTAL TEMP. -20°C TO +60°C	COMMERCIAL	2	0.4
4	PID 890	BALL VALVE FOR MANUAL OPERATION IN GAS, AIR, WATER AND OIL RP THREAD - PE MAX 16 BAR ENVIRONMENTAL TEMP. -20°C TO +60°C EG APPROVAL AND CERTIFICATE.	COMMERCIAL	2	44.82
3	PID 830	CONTROL, BUTTERFLY VALVE FOR INSTALLATION BETWEEN 2 FLANGES DN 80 PN 10 FOR NATURAL GAS, JUST A GAS, DIVING CERT. COMPLETE ASSEMBLED WITH PNEUMATIC ACTUATOR, OPEN/CLOSE 3 - 5 SECONDS MAX. AND SIEMENS SPART PS 2, TYPE: 6DS010-0NG01-0AA0-Z C20, 4- 20 mA IN AND OUTPUT, 24VDC	COMMERCIAL	1	20.96
2	PID 810	ANNULAR CHAMBER ORIFICE ASSEMBLY, FOR INSTALLATION BETWEEN 2 FLANGES DIFFERENTIAL PRESSURE: 15 MBAR, DN80, 4 CONNECTIONS 1 1/4" VGAS-401 MM3H, PE=230 MBAR	COMMERCIAL	1	1.82
1	PID 145	PRESSURE SWITCH RANGE 30 - 150 MBAR, OVERPRESSURE, VACUUM AND DIFFERENTIAL PRESSURE EL. CONNECTION WITH SCREW TERMINAL, MANUAL ADJUSTMENT OF SET POINT EG CERTIFICATE.	COMMERCIAL	1	0

UNSPECIFIED WELDS:

70%

JOINT WITHOUT BEVEL

40%

JOINT WITH BEVEL

70%

JOINT WITH REINFORCEMENT

80%

PIPE/PROFILE JOINT

40%

PLATE SPLICING

Note: Percentage (%) of the weld in relation to the smallest section of the weld joint.

Non-individual tolerances according to DIN 7168.

Angular Tolerance

Linear Tolerance

0-10

10-50

50-120

120-400

>400

±1°

±0.5°

±0.33°

±0.16°

±0.083°

0-6

6-30

30-120

120-315

315-1000

>1000

±0.1

±0.2

±0.3

±0.5

±0.8

±1.2

Drawn 3D:

Drawn 2D:

Omar P.

Julio Cesar M.

Date:

1/12/2025

1st Dihedral

ISO 5456-2

Designation:

Natural Gas Routed Set-up

Equipment:

TMT (FVRB-2,7-25)

Rev.

B

2558-3322-TMT-CBS01-GEN01-20

Scale 1:15

Weight (kg) 560

Sheet 1 of 2

Format A1

insertec

Furnaces & Refractories

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