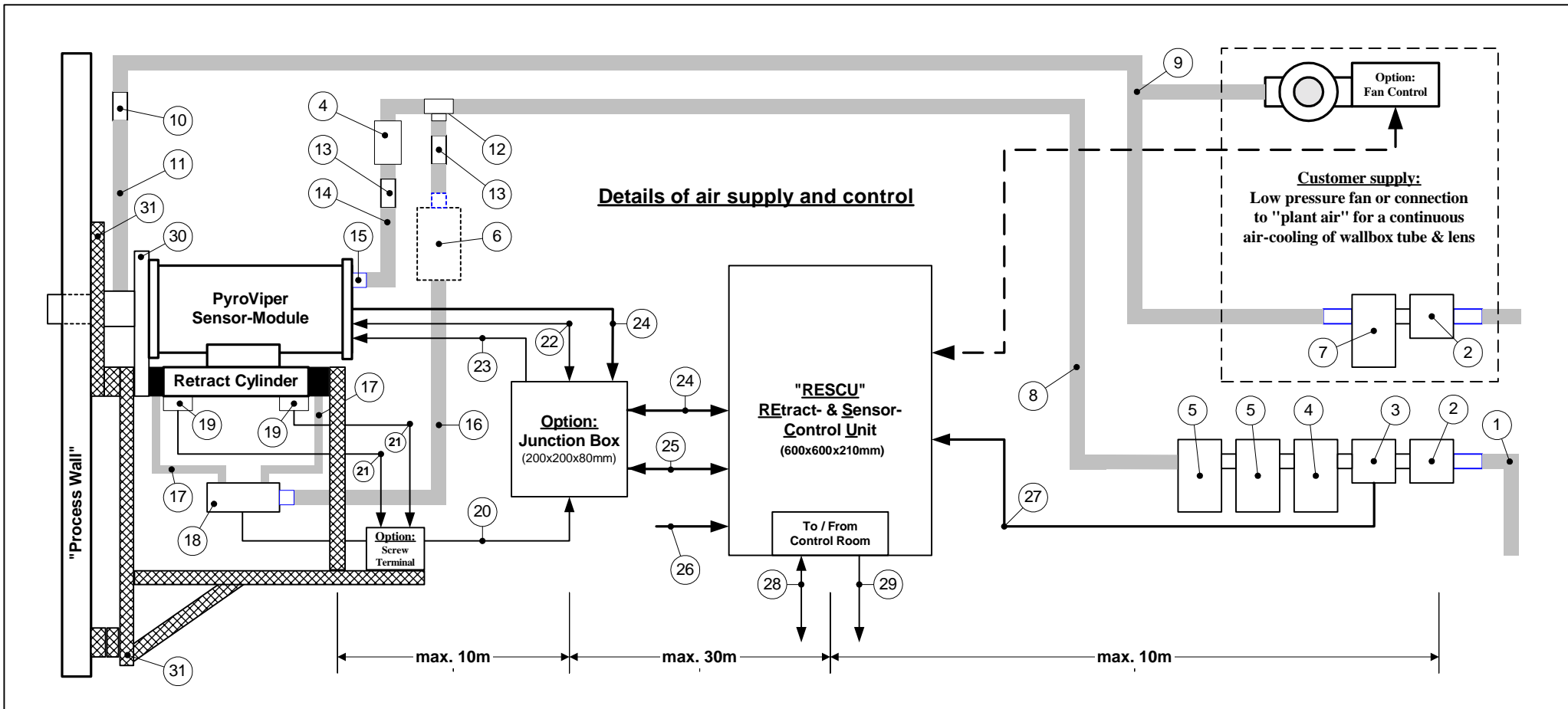


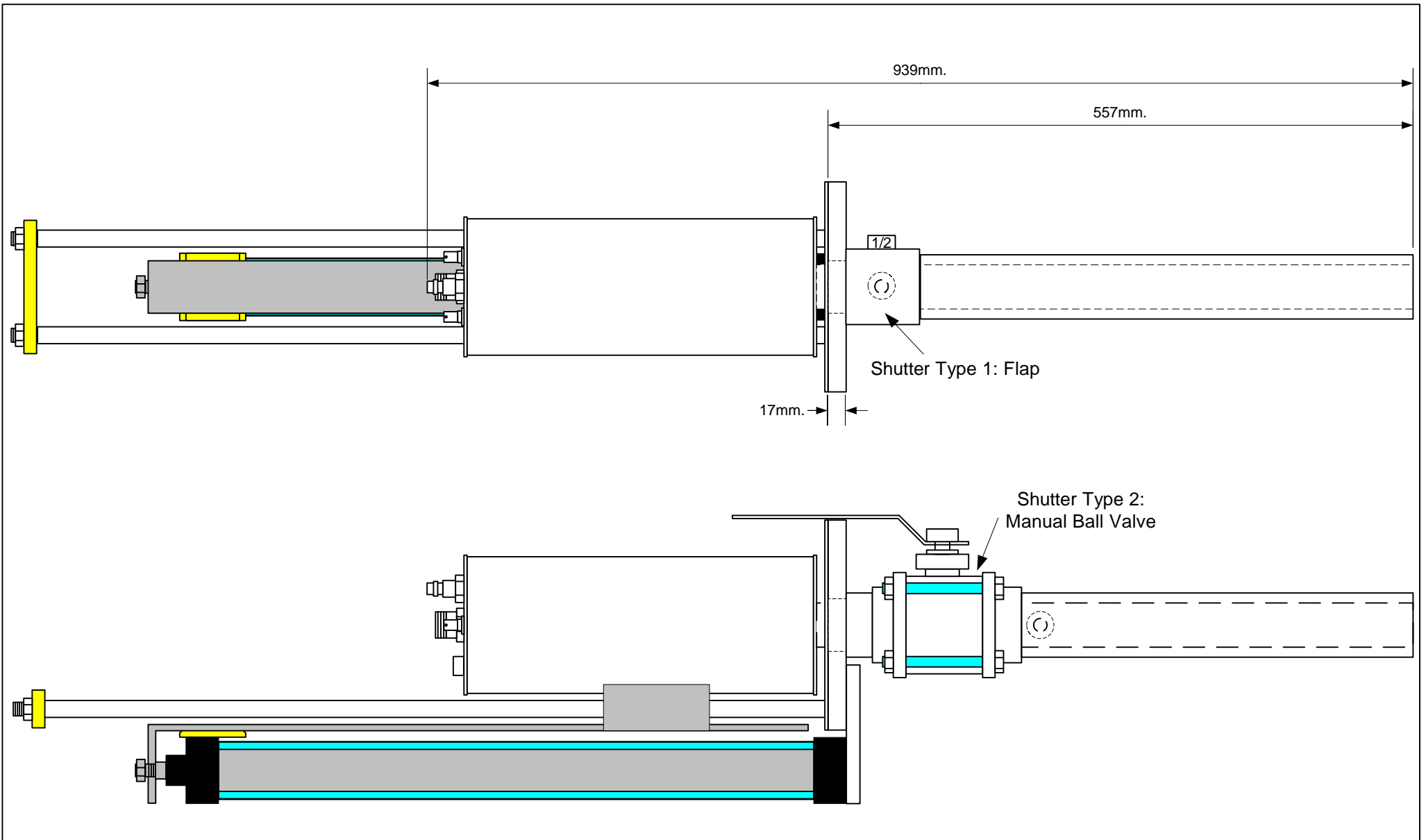
General Pyroviper System Layout

A1-3	Signal for 1-3 imaging channels: Flexible high quality coax cables to "RESCU" unit via optional J-Box (total cable length max. 40m)	G1-2	G1: Long distance Data-Link for "static control signals" (max. 2000m), G2: Control signal I/O (cable length max. 10m)
B1-3	Independent power for up to three imaging video channels from "RESCU" unit via optional J-Box (total cable length max. 40m)	H	Process options: Option-1: 8-32 channels relay alarm output, Option-2: 6-32 channels 4-20mA analog signal output
C1-3	Sensor control signals to/from "RESCU" unit via optional J-Box (total cable length max. 40m): Lens temperature, sensor remote control..	K	UPS power supply lines 110/220 VAC, 5A (with surge suppression)
D1-5	Auto-retract control signals to/from Sensor Control Unit "RESCU" unit via optional J-Box (total cable length max. 40m)		
A-D	Quick disconnect multiple-function interconnection cable between optional J-Box and "RESCU" unit (total cable length max. 30m)	U1-2	U1: 1" instrument air supply from plant (80-200 PSD), U2: min. 3/8" air-line after air filtration (actual size depends on site conditions)
E1-2	E1: air inlet pressure measurement (option), E2: Air barrier valve (low inlet pressure check valve)	U3-4	U3: air-line to sensor-housing for lens tip air purging, lens- & sensor cooling (10-15 PSIG @ approx. 20 SCFM, U4: air-line to auto-retract
F1-2	F1: Long distance Data-Link for up to 3 imaging channels (max. distance with coax cable 100m, with FOC 2000m), F2: Coax (max. 3m)	Ux, X	Ux: Oil free plant air, X: 5 to 15 SCFM low pressure air supply to wallbox: outside cooling of the lens-system & additional air purge for the lens

Comment	Date:	Initials	Company Name:	Project-Title:	PyroViper Technical System Layout Drawings (Specifications are subject to change without notice)			GESOTEC Industrial Technologies Homepage: www.gesotec.com (c) 1982-2002 by GESOTEC / All rights reserved	
First Layout	01.03.1998	MHC	GESOTEC Industrial Technologies	Project-Title:	PyroViper Technical System Layout Drawings (Specifications are subject to change without notice)				
First Modification	27.04.2000	AWH	Location:	Tech-Center, Darmstadt, Germany	Drawing.-No.:	PVipTMan-V21.AH20401A.P5-GIT	Page No.:		1
Last Modification	21.12.2001	AWH					Total Pages:		5



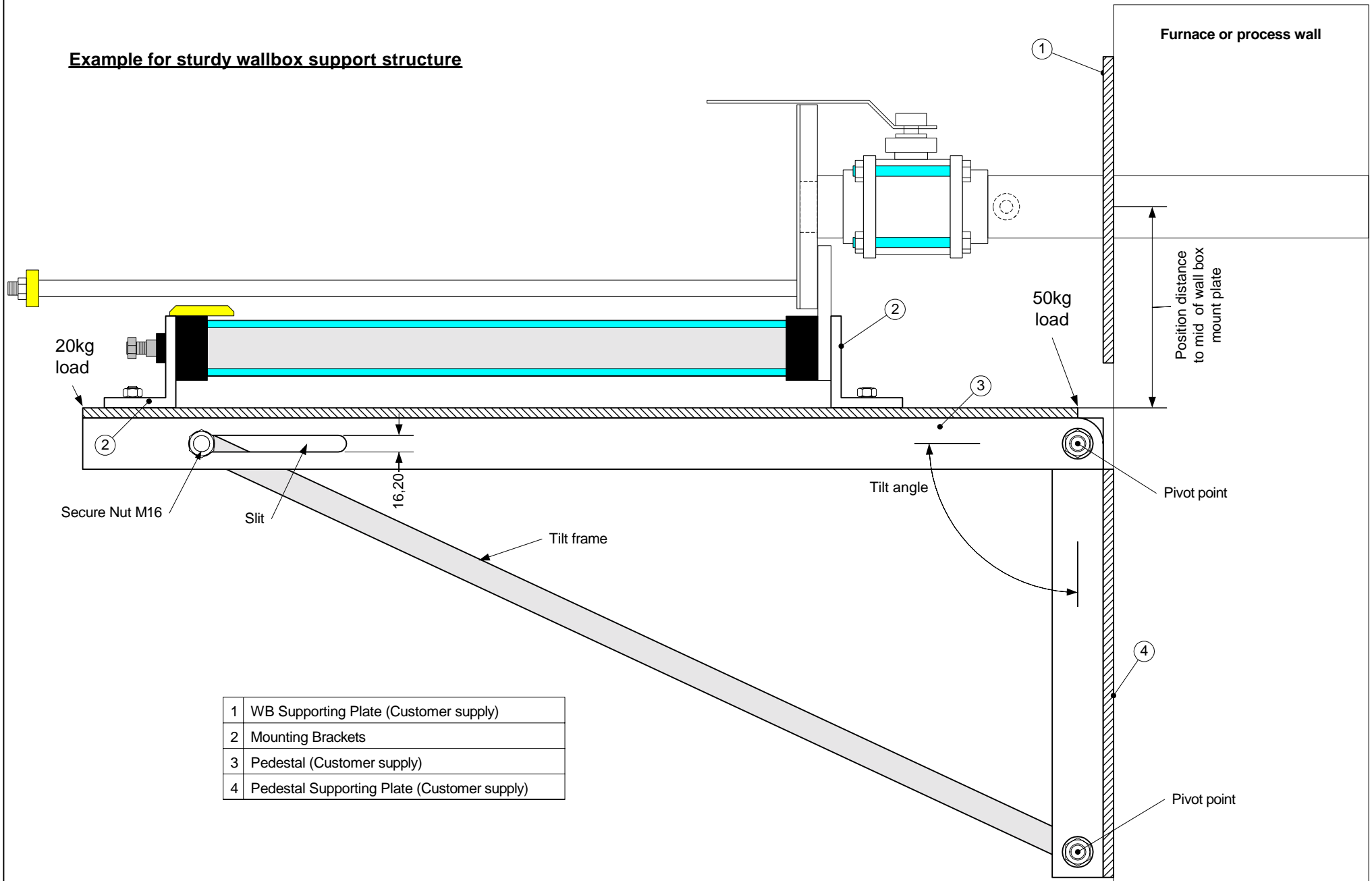
(1) (*SBC) 1" NPT Instrument Air Supply	(11) (*SBC) 1/2" Air-Hose or pipe (minimum size)	21 IN/OUT Position Signal Line (2x0,5mm ²)	(29) (*SBC) Signal Transmission of Imaging- & Measurement Data to I/O-Process-Interface-Unit / Data-Acquisition-Controller:
(2) (*SBC) Air Barrier Valve (Option: Solenoid)	(12) (*SBC) 1/2" Y-Junction	22 Sensor Module Control Line (12x0,5mm ²)	Use of Coax- or Fiber-Optic cables depends on transmission distance & environm. conditions
3 Option: Air Pressure Sensing Switch	(13) (*SBC) 1/2" to 1/4" Reduction Joint	23 Sensor Module Power Line (8x0,5mm ²)	
4 Option: Air Pressure Regulator & Manometer	14 1/4" Air-Hose to Sensor-Module (3m)	24 Sensor Module Data (Imaging- & Measurement): Depending on Sensor Model 1/2/3 x RG59 Coax	30 Wallbox Mount with Retract Assembly
5 Option: 0,5um Pre- & Coalescing-Final- Filter	15 Quick disconnect Air-Hose Junction	25 Control Signals & Sensor Power (24x0,5mm ²)	(31) (*SBC) Support Structure for Wallbox Mount inclusive Heat-Shield against kiln "back-fire"
6 Option: Emergency Standby Air-Reservoir	16 1/4" Air-Hose to Auto-Retract Solenoid (3m)	(26) (*SBC) UPS 110/220V AC with surge protection	(*) SBC = to be supplied by customer (plant) Noncorrosive material for all air supply pipes
(7) (*SBC) Air Pressure Regulator & Manometer	17 Air-Hose from Solenoid to Retract Cylinder	(27) (*SBC) Air Pressure Sense Line (2x0,5mm ²)	
(8) (*SBC) Pipe size min. 3/4"	18 Solenoid for Retract Cylinder Control	(28) (*SBC) Control Signal Lines to/from I/O-Interface: (shielded twisted-pair 16x2x0,5mm ²)	
(9) (*SBC) Pipe size depends on site conditions	19 Limit Switch Retract Cylinder IN/OUT-Position		
(10) (*SBC) 1/2" Joint (minimum size)	20 IN/OUT Control / Position Signals (4x2x0,5mm ²)		



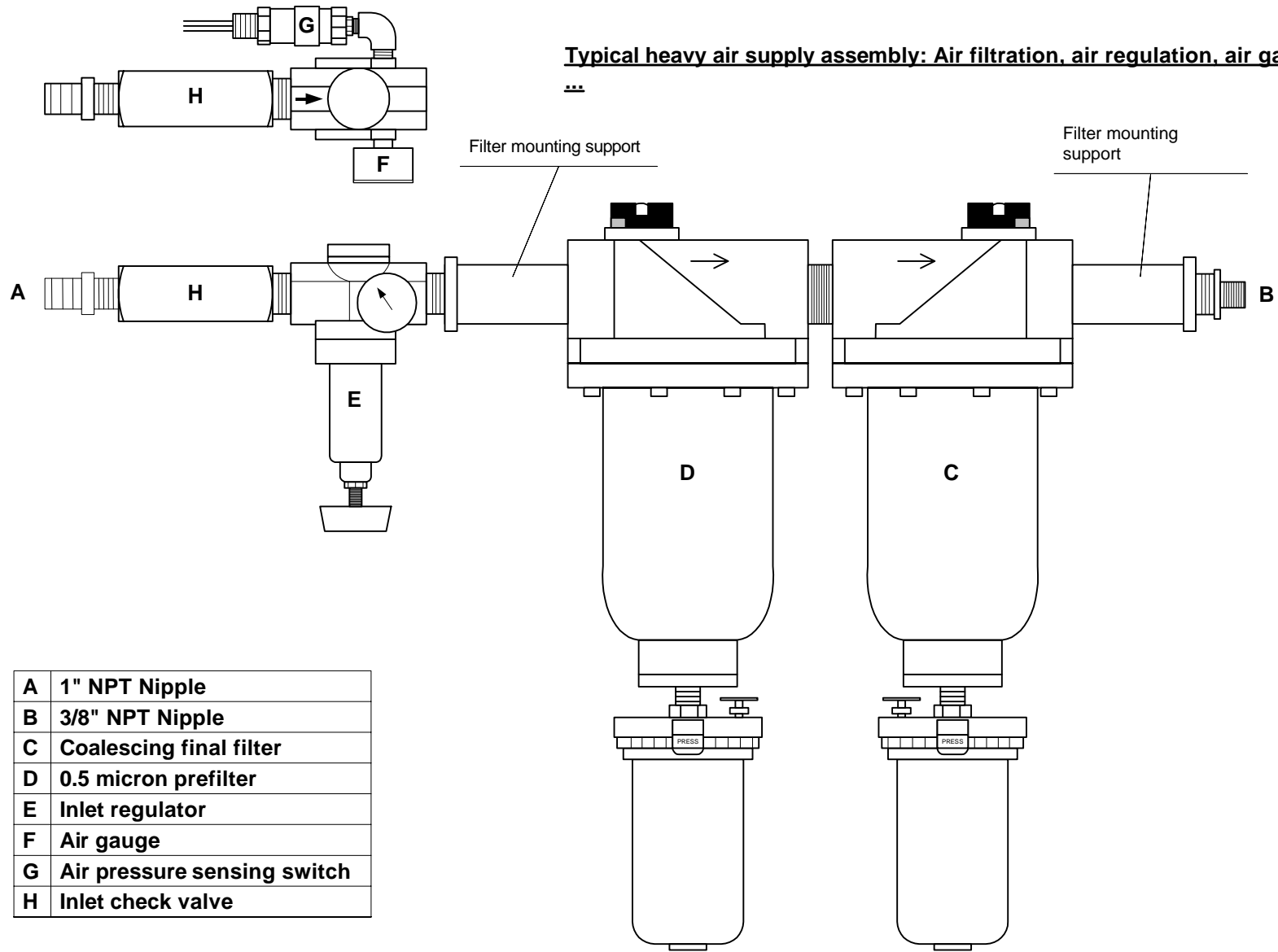
Heavy duty wallbox with manual shutter options and retracting cylinder for 24" lens: inserted position

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Last Modification	21.12.2001	AWH				Total Pages:	5	File-Name: PVipTMan-V21.AH20401A.P5-GIT.vsd

Example for sturdy wallbox support structure



1	WB Supporting Plate (Customer supply)
2	Mounting Brackets
3	Pedestal (Customer supply)
4	Pedestal Supporting Plate (Customer supply)



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