



**CATALOGUE** • *2020 issue*

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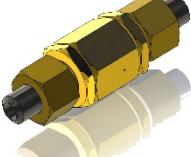
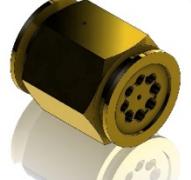
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Design property of MRTech

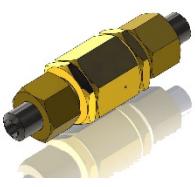
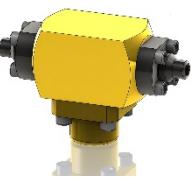
## I. ND 12.7 Line

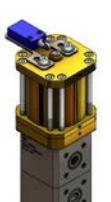
Valves: 2 orientable bodies - 4 Inlet/outlet - balanced valves

### a. Medical Oxygen & Neutral Gases

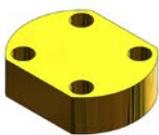
	<b>HV 12.7 - 420b - O2</b> Hand Valve ND 12.7 - 420 bar Body: SW1 Ecobrass; Seat & stem: Monel	<b>Datasheet:</b> 
	<b>PV 12.7 - NC - 420b - O2</b> Pneumatic Valve ND 12.7 - 420 bar - Normally closed Body: SW1 Ecobrass; Seat & stem: Monel	<b>Datasheet:</b> 
	<b>PV 12.7 - NO - 420b - O2</b> Pneumatic Valve ND 12.7 - 420 bar - Normally open Body: SW1 Ecobrass; Seat & stem: Monel	<b>Datasheet:</b> 
	<b>RV 12.7 - 420b - O2</b> Proportional Regulation Valve ND 12.7 - 420 bar Body: SW1 Ecobrass; Seat & stem: Monel	<b>Datasheet:</b> 
	<b>CV 12.7 - 420b - O2</b> Check Valve ND 12.7 - 420 bar Body: SW1 Ecobrass; Valve: Monel	<b>Datasheet:</b> 
	<b>FI 12.7 - 420b - O2</b> Filter ND 12.7 - 420 bar - 20 micron Body: SW1 Ecobrass; Cartridge: Monel	<b>Datasheet:</b> 
	<b>SOV 40 - 02</b> Vacuum relief safety valve KF 40	<b>Datasheet:</b> 

## b. Hydrogen

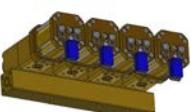
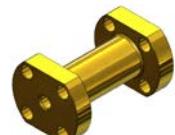
	<b>HV 12.7 - 420b - H2</b> Hand Valve ND 12.7 - 420 bar Body: SW1 Ecobrass; Seat: Peek	Datasheet: 
	<b>PV 12.7 - NC - 420b - H2</b> Pneumatic Valve ND 12.7 - 420 bar - Normally closed Body: SW1 Ecobrass; Seat: Peek	Datasheet: 
	<b>PV 12.7 - NO - 420b - H2</b> Pneumatic Valve ND 12.7 - 420 bar - Normally open Body: SW1 Ecobrass; Seat: Peek	Datasheet: 
	<b>RV 12.7 - 420b - H2</b> Proportional Regulation Valve ND 12.7 - 420 bar Body: SW1 Ecobrass; Seat: Peek	Datasheet: 
	<b>CV 12.7 - 420b - H2</b> Check Valve ND 12.7 - 420 bar Body: Brass; Valve: Peek	Datasheet: 
	<b>FI 12.7 - 420b - H2</b> Filter ND 12.7 - 420 bar - 20 micron Body: SW1 Ecobrass; Cartridge: Monel	

	<p><b>HV 12.7 - 600b - H2</b>          Hand Valve ND 12.7 - 600 bar          Body: Stainless Steel 316L; Seat: Peek</p>	
	<p><b>PV 12.7 - NC - 600b - H2</b>          Pneumatic Valve ND 12.7 - 600 bar - Normally closed          Body: Stainless Steel 316L; Seat: Peek</p>	
	<p><b>PV 12.7 - NO - 600b - H2</b>          Pneumatic Valve ND 12.7 - 600 bar - Normally open          Body: Stainless Steel 316L; Seat: Peek</p>	
	<p><b>RV 12.7 - 600b - H2</b>          Proportional Regulation Valve ND 12.7 - 600 bar          Body: Stainless Steel 316L; Seat: Peek</p>	
	<p><b>CV 12.7 - 600b - H2</b>          Check Valve ND 12.7 - 600 bar          Body: Stainless Steel 316L; Valve: Peek</p>	

### c. Valves Accessories

	Blind Flange 420 bar – brass for 12.7 valve	
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	Stainless Steel Flange 420-600 bar 1/2" BW Sch 80	
	Stainless Steel Flange 420-600 bar 3/4" BW Sch 80	
	Stainless Steel Flange 420-600 bar 3/4" BW Sch 160	
	Monel Flange 420-600 bar 3/4" BW Sch 160	
	Connector 1/2" Sch 80 for check valve	
	Connector 3/4" Sch 160 for check valve	
	Valve Limit Switch	
	Valve Collector 2P	
	Valve Collector 3P	

	Valve Collector 4P	
	Valve to Valve Diabolo Connector S	
	Valve to Valve Diabolo Connector L	

## II. ND 10 Line

Online valves; balanced valves

2 options for each valve:

F = Flange connection mainly for MRTech valves collectors

C = Screwed connector

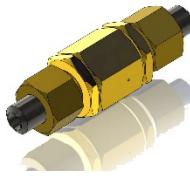
### a. Medical Oxygen & Neutral Gases

	<b>HV 10 C - 360b - O2</b> Hand Valve ND 10 - 360 bar Body: Brass; Seat & stem: Monel	Datasheet: 
	<b>HV 10 F - 360b - O2</b> Hand Valve ND 10 - 360 bar Body: Brass; Seat & stem: Monel	Datasheet: 
	<b>PV 10 C - NC - 360b - O2</b> Pneumatic Valve ND 10 - 360 bar - Normally closed Body: Brass; Seat & stem: Monel	Datasheet: 

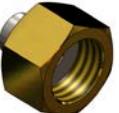
	<b>PV 10 F - NC - 360b - O2</b> Pneumatic Valve ND 10 - 360 bar - Normally closed Body: Brass; Seat & stem: Monel	Datasheet: 
	<b>PV 10 C - NO - 360b - O2</b> Pneumatic Valve ND 10 - 360 bar - Normally open Body: Brass; Seat & stem: Monel	Datasheet: 
	<b>PV 10 F - NO - 360b - O2</b> Pneumatic Valve ND 10 - 360 bar - Normally open Body: Brass; Seat & stem: Monel	Datasheet: 
	<b>CV 10 - 360b - O2</b> Check Valve ND 10 - 360 bar Body: Brass; Valve: Monel	Datasheet: 

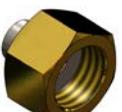
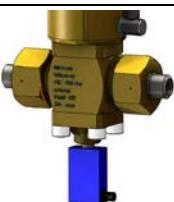
### b. Hydrogen

	<b>HV 10 C - 360b - H2</b> Hand Valve ND 10 - 360 bar Body: Brass; Seat: Peek	Datasheet: 
	<b>HV 10 F - 360b - H2</b> Hand Valve ND 10 - 360 bar Body: Brass; Seat: Peek	Datasheet: 
	<b>PV 10 C - NC - 360b - H2</b> Pneumatic Valve ND 10 - 360 bar - Normally closed Body: Brass; Seat: Peek	Datasheet: 
	<b>PV 10 F - NC - 360b - H2</b> Pneumatic Valve ND 10 - 360 bar - Normally closed Body: Brass; Seat: Peek	Datasheet: 

	<p><b>PV 10 C - NO - 360b - H2</b>            Pneumatic Valve ND 10 - 360 bar - Normally open            Body: Brass; Seat: Peek</p>	Datasheet: 
	<p><b>PV 10 F - NO - 360b - H2</b>            Pneumatic Valve ND 10 - 360 bar - Normally open            Body: Brass; Seat: Peek</p>	Datasheet: 
	<p><b>CV 10 - 360b - H2</b>            Check Valve ND 10 - 360 bar            Body: Brass; Seat: Peek</p>	Datasheet: 
	<p><b>HV 10 - 450b - H2</b>            Hand Valve ND 10 - 450 bar            Body: Stainless Steel 316 L; Seat: Peek</p>	
	<p><b>PV 10 - NC - 450b - H2</b>            Pneumatic Valve ND 10 - 450 bar - Normally closed            Body: Stainless Steel 316 L; Seat: Peek</p>	
	<p><b>PV 10 - NO - 450b - H2</b>            Pneumatic Valve ND 10 - 450 bar - Normally open            Body: Stainless Steel 316 L; Seat: Peek</p>	
	<p><b>CV 10 - 450b - H2</b>            Check Valve ND 10 - 450 bar            Body: Stainless Steel 316 L; Seat: Peek</p>	

### c. Valves Accessories ND10/ND6

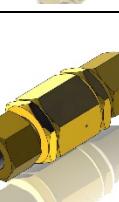
	360 bar screwed connector with 1/2" OD	
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	360 bar screwed connector with 3/8" OD	
	360 bar screwed connector with 1/4" OD	
	Stainless Steel Flange 360-450 bar with 1/2" OD	
	Stainless Steel Flange 360-450 bar with 3/8" OD	
	Limit Switch	
	Valve to valve diabolo	

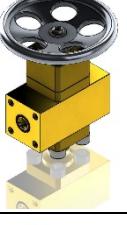
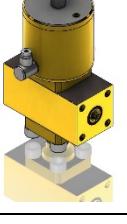
### III. ND 6 Line

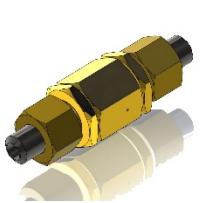
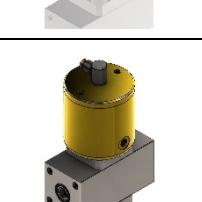
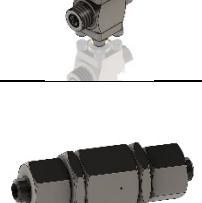
On line valves; balanced valves

#### a. Medical Oxygen & Neutral Gases

	<b>HV 6 C - 360b - O2</b> Hand Valve ND 6 - 360 bar Body: Brass; Seat & stem: Monel	Datasheet: 
	<b>HV 6 F - 360b - O2</b> Hand Valve ND 6 - 360 bar Body: Brass; Seat & stem: Monel	Datasheet: 
	<b>PV 6 C - NC - 360b - O2</b> Pneumatic Valve ND 6 - 360 bar - Normally closed Body: Brass; Seat & stem: Monel	Datasheet: 
	<b>PV 6 F - NC - 360b - O2</b> Pneumatic Valve ND 6 - 360 bar - Normally closed Body: Brass; Seat & stem: Monel	Datasheet: 
	<b>PV 6 C - NO - 360b - O2</b> Pneumatic Valve ND 6 - 360 bar - Normally open Body: Brass; Seat & stem: Monel	Datasheet: 
	<b>PV 6 F - NO - 360b - O2</b> Pneumatic Valve ND 6 - 360 bar - Normally open Body: Brass; Seat & stem: Monel	Datasheet: 
	<b>RV 6 - 360b - O2</b> Regulation Valve ND 6 - 360 bar Body: Brass; Seat & stem: Monel	
	<b>CV 6 - 360b - O2</b> Check Valve ND 6 - 360 bar Body: Brass; Valve: Monel	Datasheet: 

## b. Hydrogen

	<b>HV 6 C - 360b - H2</b> Hand Valve ND 6 - 360 bar Body: Brass; Seat: Peek	Datasheet: 
	<b>HV 6 F - 360b - H2</b> Hand Valve ND 6 - 360 bar Body: Brass; Seat: Peek	Datasheet: 
	<b>PV 6 C - NC - 360b - H2</b> Pneumatic Valve ND 6 - 360 bar - Normally closed Body: Brass; Seat: Peek	Datasheet: 
	<b>PV 6 F - NC - 360b - H2</b> Pneumatic Valve ND 6 - 360 bar - Normally closed Body: Brass; Seat: Peek	Datasheet: 
	<b>PV 6 C - NO - 360b - H2</b> Pneumatic Valve ND 6 - 360 bar - Normally open Body: Brass; Seat: Peek	Datasheet: 
	<b>PV 6 C - NO - 360b - H2</b> Pneumatic Valve ND 6 - 360 bar - Normally open Body: Brass; Seat: Peek	Datasheet: 
	<b>PV 6 F - NO - 360b - H2</b> Pneumatic Valve ND 6 - 360 bar - Normally open Body: Brass; Seat: Peek	Datasheet: 
	<b>RV 6 - 360b - H2</b> Regulation Valve - 360 bar Body: Brass; Seat: Peek	

	<b>CV 6 - 360b - H2</b> Check Valve ND 6 - 360 bar Body: Brass; Seat: Peek	Datasheet: 
	<b>HV 6 - 450b - H2</b> Hand Valve ND 6 - 450 bar Body: Stainless Steel 316 L; Seat: Peek	
	<b>PV 6 - NC - 450b - H2</b> Pneumatic Valve ND 6 - 450 bar - Normally closed Body: Stainless Steel 316 L; Seat: Peek	
	<b>PV 6 - NO - 450b - H2</b> Pneumatic Valve ND 6 - 450 bar - Normally open Body: Stainless Steel 316 L; Seat: Peek	
	<b>RV 6 - 450b - H2</b> Regulation Valve - 450 bar Body: Stainless Steel 316 L; Seat: Peek	
	<b>CV 6 - 450b - H2</b> Check Valve ND 6 - 450 bar Body: Stainless Steel 316 L; Seat: Peek	

#### IV. ND 4 Line

On line valves

##### a. Medical Oxygen & Neutral Gases

	<b>HV 4 - 360b - O2</b> Hand Valve ND 4 - 360 bar Body: Brass; Seat & stem: Monel	Datasheet: 
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	<p><b>PV 4 - NC - 360b - O2</b>            Pneumatic Valve ND 4 - 360 bar - Normally closed            Body: Brass; Seat &amp; stem: Monel</p>	Datasheet: 
	<p><b>PV 4 - NO - 360b - O2</b>            Pneumatic Valve ND 4 - 360 bar - Normally open            Body: Brass; Seat &amp; stem: Monel</p>	Datasheet: 
	<p><b>CV 4 - 360b - O2</b>            Check Valve ND 4 - 360 bar            Body: Brass; Valve: Monel</p>	

### b. Hydrogen

	<p><b>HV 4 - 360b - H2</b>            Hand Valve ND 4 - 360 bar            Body: Brass; Seat: Peek</p>	Datasheet: 
	<p><b>PV 4 - NC - 360b - H2</b>            Pneumatic Valve ND 4 - 360 bar - Normally closed            Body: Brass; Seat: Peek</p>	Datasheet: 
	<p><b>PV 4 - NO - 360b - H2</b>            Pneumatic Valve ND 4 - 360 bar - Normally open            Body: Brass; Seat: Peek</p>	Datasheet: 
	<p><b>CV 4 - 360b - H2</b>            Check Valve ND 4 - 360 bar            Body: Brass; Seat: Peek</p>	

	<p><b>HV 4 - 450b - H2</b>  Hand Valve ND 4 - 450 bar  Body: Stainless Steel 316 L; Seat: Peek</p>	
	<p><b>PV 4 - NC - 450b - H2</b>  Pneumatic Valve ND 4 - 450 bar - Normally closed  Body: Stainless Steel 316 L; Seat: Peek</p>	
	<p><b>PV 4 - NO - 450b - H2</b>  Pneumatic Valve ND 4 - 450 bar - Normally open  Body: Stainless Steel 316 L; Seat: Peek</p>	
	<p><b>CV 4 - 450b - H2</b>  Check Valve ND 4 - 450 bar  Body: Stainless Steel 316 L; Seat: Peek</p>	

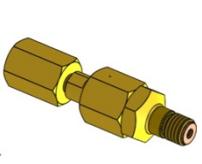
### c. Valves Accessories

	360 bar screwed connector with 3/8" OD	
	360 bar screwed connector with 1/4" OD	

## V. RT Line: Swivel Connectors

### a. Medical Oxygen & Neutral Gases

	<p><b>RT03-01</b> Swivel Connector 360 bar  16NS-3A Mâle - Gas 1/4" Mâle</p>	<p>Datasheet:</p> 
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	<b>RT04-01</b> Swivel Connector 360 bar 16NS-3A Mâle - Gas 3/8" Femelle	Datasheet: 
	<b>RT05-01</b> Swivel Connector 360 bar 16*125 M - 16*125 F	Datasheet: 
	<b>RT06-01</b> Swivel Connector 360 bar 1/4" NPT Mâle - 1/4" NPT Femelle	Datasheet: 
	<b>RT07-01</b> Swivel Connector 360 bar 16*125 F - Gas 1/4" M + Cone 90	Datasheet: 
	<b>RT08-01</b> Swivel Connector 360 bar Gas 3/8" F - Gas 1/4" M + Cone 90	Datasheet: 
	<b>RT09-01</b> Swivel Connector 360 bar 16*125 M - 1/4" NPT M	Datasheet: 
	<b>RT10-01</b> Swivel Connector 360 bar Gas 3/8" NPT F - Gas 1/4" M	Datasheet: 
	<b>RT11-01</b> Swivel Connector 360 bar Gas 1/4" NPT F - Gas 1/4" M	Datasheet: 

	<b>RT12-01</b> Swivel Connector 360 bar Gas 1/8" NPT F - Gas 1/4" M	Datasheet: 
	<b>RT13-01</b> Swivel Connector 360 bar 20*250 F - 16*125 M	Datasheet: 
	<b>RT14-01</b> Swivel Connector 360 bar 1/4" NPT Mâle - 14*150 M	Datasheet: 
	<b>RT15-01</b> Swivel Connector 360 bar 1/4" NPT Mâle - Gas 1/4" M + Cone 60	Datasheet: 
	<b>RT16-01</b> Swivel Connector 360 bar 3/8" NPT F - Gas 1/8" F	Datasheet: 
	<b>RT17-01</b> Swivel Connector 360 bar 16*125 F - Gas 1/8" F	Datasheet: 
	<b>RT18-01</b> Swivel Connector 360 bar 1/4 BSP F - 1/4 BSP M + Cone 60	Datasheet: 
	<b>RT19-01</b> Swivel Connector 360 bar 20*250 F - 20*250 M	Datasheet: 

	<b>RT20-01</b> Swivel Connector 360 bar 20*250 F - 14*150 M	Datasheet: 
	<b>RT21-01</b> Swivel Connector 360 bar 16*150 M - 16*125 F	Datasheet: 
	<b>RT23-01</b> Swivel Connector 360 bar 16*125 M - DIN 477 N9 M	Datasheet: 
	<b>RT24-01</b> Swivel Connector 360 bar 1/2" NPT M – 1/2" SW	Datasheet: 

## VI. EC Line: Filling Connectors

Beyond this range, MRTech designs filling tools according to the needs of each customer.

### AFNOR TYPE

#### a. Neutral gases – C type

	<b>EC 128-01</b> - C type Connector without pin (non RPV) Angle Connector 16*125 Female	Datasheet: 
	<b>ES 103-01</b> - C type connecteur RPV Angle Connector 1/4 NPT Mâle	Datasheet: 
	<b>ES 103-04</b> - C type connector RPV Angle connector 16*150 Mâle	Datasheet: 

#### b. Medical air – D type

	<b>ES 102-01</b> - D type connector RPV Angle connector 1/4 NPT Mâle	Datasheet: 
	<b>ES 102-02</b> - D type connector Angle connector 27*150 Female  Datasheet:	Datasheet: 

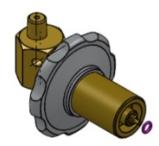
### c. Oxygen – F type

	<b>EC 01-01</b> F type connector RPV - Neriki/R7 Angle Connector 16*125 Female  Datasheet:	Datasheet: 
	<b>ES 100-03</b> F type connector RPV Angle connector 1/4 NPT Mâle	Datasheet: 
	<b>ES 100RT-01/02</b> F type connector RPV Swivel connector 16*125 Female	Datasheet: 
	<b>EC 109-01</b> F type connector with retractable pin S200 type - hose connector 16*125 Female	Datasheet: 
	<b>EC 114-01</b> F type connector RPV – Neriki Angle connector gas 1/4 Female	Datasheet: 
	<b>EC 115-01</b> F type RPV 3 pin positions Multi cylinder valves connector	Datasheet: 

### d. Flammable gases except oxygen – G type

	<b>EC 126-01</b> G type connector RPV Angle Connector 16*125 Female	Datasheet: 
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e. Kalinox – L type

	<b>ES 104-02</b> L type with retractable pin S200 type	Datasheet: 
	<b>ES 104-01</b> L type connector RPV Angle connector 1/4 NPT Male	Datasheet: 

f. Special gases – M/N type

	<b>ES 101-01</b> M type connector RPV Angle connector C type	Datasheet: 
	<b>ES 106-03</b> N type connector RPV Angle connector gas 1/4 Female	Datasheet: 

**DIN 477 TYPE**

a. CO2

	<b>EC 117-01</b> DIN 477 N°6 2/3 positions Multi cylinder valves connector	Datasheet: 
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b. Oxygen

	<b>EC 111-01 DIN 477 N°9</b> Angle Connector 16*125 Female	Datasheet: 
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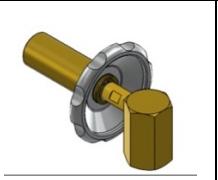
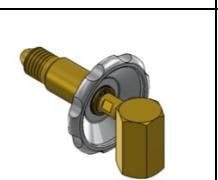
c. Hydrogen

	<b>EC 110-01 DIN 477 N°1</b> Angle Connector 16*125 Female	Datasheet: 
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d. Neutral gases

	<b>EC 124-01 DIN 477 N°6</b> Angle Connector 16*125 Female	Datasheet: 
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**CGA UNI TYPE**

	<b>CGA 540 – Neutral Gases</b>	
	<b>CGA 580 – Oxygen</b>	

## UNI TYPE

CH4/CO

	<p><b>EC 125-01</b> UNI44-05 W20*1.814 LH RPV Angle connector 1/4 BSP 60° cone M</p>	<p>Datasheet:</p> 
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## Bundle Purging Tool

	<p>To purge HP gas cylinders frames in fully safe conditions, To maintain a residual pressure inside the HP gas cylinders frames</p>	
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## Pressure Controller

	<p>Adaptable to any type of cylinders valves Working pressure: 360 bar Delivered in a portable case to store it and move it safely Fitted as an option with digital manometer</p>	<p>Datasheet:</p> 
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## VII. QC Line: Quick Connect Filling Tool

	<p><b>EC 139-01</b> Quick Connector Type C Neutral Gases</p>	<p>Datasheet:</p> 
	<p><b>EC 140-01</b> Quick Connector Type F O2</p>	<p>Datasheet:</p> 

## VIII. Miscellaneous

	Cylinder valves test bench	
	Flange for bursting disc on cryogenic vessel	

## IX. PH Line: Pigtail hoses 360 – 420 bar

MRTech Pigtail Hoses common data:

- Stainless steel 316L \_6 x 1 or 6 x 1,5 according to the MAWP
- Orbital welding for connectors (type to be defined) at each end.

	<b>PH 125-6</b> Diameter 125mm 6 turns - 80mm Elastic clearance	
	<b>PH 150-10</b> Diameter 150mm 10 turns Elastic clearance 150mm	
	<b>PH 180-8</b> Diameter 180mm 8 turns Elastic clearance 300mm	
	<b>PH 180-16</b> Diameter 180mm 16 turns Elastic clearance 500mm	

## Pigtail Accessories

	<b>Adjustable hook</b> to maintain pigtail in upper position	
	<b>Safety cable</b>	
	<b>Heat Dissipator</b> for O2 Flexible Hose	

## X. Trolleys

	<b>2 x 5 cylinders</b> B15 – B20 Integrated Manifold Low bottom	
	<b>2 x 5 cylinders</b> B2 – B5	
	<b>2 x 6 cylinders</b> B2 – B5 Integrated Manifold Document holder	
	<b>2 x 8 cylinders</b> B22 – B5 – B10 Integrated Manifold Removable level plate	

	<b>2 x 8 cylinders</b> B1 – B2 – B5 Adjustable Manifold Level	
	<b>2 x 8 cylinders (or 3 x 8 cylinders)</b> B2 – B5	
	<b>2 x 8 cylinders</b> B2 – B5 – B11 – B15 Removable level plates	
	<b>30 cylinders</b> B5 Integrated Manifold with balanced length of pigtail hoses	
	<b>40 cylinders</b> Pinindex Integrated Manifold	

## XI. Manifolds

	<b>On Line type</b> 2x5 up to 2x10 outlets	
	<b>Circular type</b> 2x5 up to 2x10 outlets	

	<b>2/3 Lines type</b> From 2x5 up to 2x8 or 3x8 outlets	
	<b>Hippodrom type</b> From 2x5 to 2x10 outlets	
	<b>Octopus type</b> From 4 to 10 outlets	
	<b>Octopus type</b> 12 - 15 -16 outlets Balanced filling	
	<b>Protection cage</b>	
	<b>Mobile filling ramp</b>	

## XII. Skids

	<b>Monogaz 4 ramps</b> PLC managed valves Panel Makrolon shield on each side	
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	<p><b>Monogas 5 Ramps</b> PLC managed Valves Panel      Makrolon shield on each side      Makrolon shield for pressure gauges</p>	
	<p><b>StopFill</b> PLC managed Valves Panel      Stop Fill enables automatized filling operations for 1 gas; vacuum – vent off and filling sequences with temperature management</p>	
	<p><b>StopMix</b> PLC managed Valves Panel      3 Gases / 4 Ramps      Stop Mix enables automatized filling operations for mixing up to 5 gases; vacuum – vent off and filling sequences</p>	
	<p><b>Mixgas 5 Gases – 5 Ramps</b> PLC managed Valves Panel      Makrolon shield on each side</p>	
	<p><b>Small Manual Filling System</b></p>	
	<p><b>Manual Valve Panel 2 lines</b></p>	
	<p><b>3 Oxygen lines</b> Manual Valves Panel</p>	

	<p><b>Manual Mixgas Valve Panel</b></p>	
	<p><b>Cryogenic pump Safety Panel</b>  The PLC version of the Cryogenic Pump Safety Panel enables to replace the pump control cabinet and to manage main valves, buffer filling.  It can work with StopFill or StopMix for complete integration</p>	
	<p><b>Buffer Bundle</b>  360 – 420 bar buffer constituted by a bundle of 8/16 B50 cylinders</p>	

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