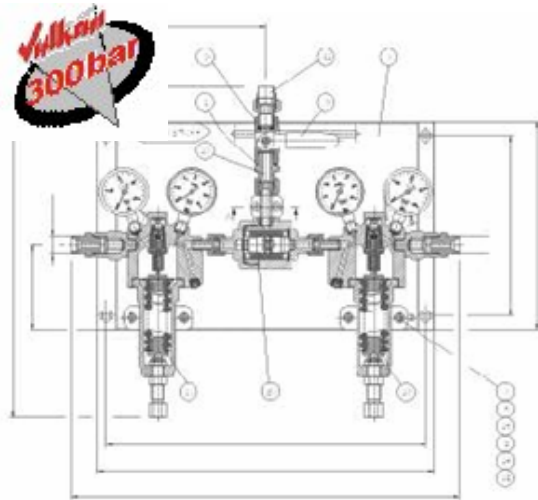


Automatic Manifolds Modula



At the fully automatic change-over device, the working pressure is adjusted through the pressure regulator. The switch from the empty to the full side will occur here automatically with the help of the change-over bloc which is installed between the two main pressure regulators. It is important that both main pressure regulators are adjusted to the same working pressure. This is done by the manufacturer. If the cylinders or bundle on one side are empty, the pressure of the cylinders is reduced, leading to a reduction of the working pressure of the main pressure regulator adjacent to the change-over bloc. If the working pressure of the main pressure regulator drops by more than 3-4/5-7 bar below the programmed pressure, the tension of the spring inside the change-over bloc will cause the piston to move to the full side. If the empty cylinders or bundles are replaced, they must be opened again, so that the full pressure comes up to the automatic change-over device. This does not cause another switch of the change-over bloc. The switch will occur only at the time when the side currently in use is empty.

Automatic Manifold Modula AM 35/300 K



For oxygen and other gases except acetylene Modula add on system can be expanded to your requirements consisting of :

- 2 manifold regulators BAM approved,
- 1 working pressure regulator
- 1 automatic change over block
- 1 main shut off valve
- 2 high pressure contact gauges with Reed switch complete on base frame

Technical data		Flow charts see enclosure			
Body	brass	pe _{max}	300 bar	pa	0 - 10 bar
Seals	EPDM, Polyamide, Viton, PTFE	Q _{max}	50 Nm ³ /h	at pa	10 bar
Diaphragm	PTFE	de	M 24x1,5 RH	da	G 3/8x10 mm
Leakage rate	1x10-6mbar l/s	B	530 mm	H	400 mm
Temperature	-20 to +60 °C	T	210 mm	M	10 kg

Gas type	Article-no. with contact gauge	Article-no. without contact gauge
oxygen	414 851	413 850
nitrogen	414 351	413 350
argon	414 651	413 650
CO ₂	414 651 06	413 650 06
helium	414 651 26	413 650 26
hydrogen	414 451	413 450
compressed air	414 751	413 750

Automatic manifold Modula AM 35/300 KH

as AM 35 K, but without working pressure regulator working pressure pre-adjusted at 20 bar



Technical data		Flow charts see enclosure			
Body	brass	pe _{max}	300 bar	pa	20 bar
Seals	EPDM, Polyamide, Viton, PTFE	Q _{max}	120 Nm ³ /h	at pa	20 bar
Diaphragm	PTFE	de	M 24x1,5 RH	da	G 3/4x18 mm
Leakage rate	1x10-6mbar l/s	B	530 mm	H	400 mm
Temperature	-20 to +60 °C	T	210 mm	M	9,5 kg

Gas type	Article-no. with contact gauge	Article-no. without contact gauge
oxygen	414 854	413 853
nitrogen	414 354	413 353
argon	414 654	413 653
CO ₂	414 654 06	413 653 06
helium	414 654 26	413 653 26
hydrogen	414 454	413 453
compressed air	414 754	413 753



Automatic Manifold Modula AM 45/300 K

consisting of:

- 2 manifold fin regulators BAM approved,
- 1 automatic change over block, 1 main shut off valve
- 2 high pressure contact gauges with Reed switch complete on base frame

Technical data		<i>Flow charts see enclosure</i>			
Body	brass	$p_{e \max}$	300 bar	p_a	20 bar
Seals	EPDM, Polyamide, Viton	Q_{\max}	170 Nm ³ /h	$at \ p_a$	20 bar
Diaphragm	Schürzenstoff, for O ₂ :SS	d_e	M 24x1,5 RH	d_a	G 3/4x18 mm
Leakage rate	1x10 ⁻⁶ mbar l/s	B	530 mm	H	530 mm
Temperature	-20 to +60 °C	T	230 mm	M	12,5 kg

Gas type	Article-no. with contact gauge	Article-no. without contact gauge
oxygen	414 856	413 855
nitrogen	414 356	413 355
argon	414 656	413 655
CO ₂	414 656 06	413 655 06
helium	414 656 26	413 655 26
hydrogen	414 456	413 455
compressed air	414 756	413 755



Automatic Manifold Modula AM 55/300 K

for oxygen and other gases except acetylene Modula add on system can be expanded to your requirements, consisting of

- 2 manifold fin regulators BAM approved,
- 1 automatic change over block ,
- 1 main shut off valve,
- 2 high pressure contact gauges with Reed switch
- Complete on base frame

Technical data		<i>Flow charts see enclosure</i>			
Body	brass	$p_{e \max}$	300 bar	p_a	28 bar
Seals	EPDM, Polyamide, Viton	Q_{\max}	250 Nm ³ /h	$at \ p_a$	28 bar
Diaphragm	Schürzenstoff, for O ₂ :SS	d_e	M 24x1,5 RH	d_a	G 3/4x18 mm
Leakage rate	1x10 ⁻⁶ mbar l/s	B	530 mm	H	550 mm
Temperature	-20 to +60 °C	T	230 mm	M	15 kg

Gas type	Article-no. with contact gauge	Article-no. without contact gauge
oxygen	414 858	413 859
nitrogen	414 358	413 359
argon	414 658	413 659
CO ₂	414 658 06	413 659 06
helium	414 658 26	413 659 26
hydrogen	414 458	413 459
compressed air	414 758	413 759

Semi Automatic Manifold Modula AM 10 K

for acetylene, Modula add on system, can be expanded to your requirements for 2 x 1 cylinder consisting of

- 2 manifold regulators 209 510 acc.to DIN EN ISO 7291, BAM approved
- 2 manual cut off valve acc.to TRAC, BAM approved
- 1 working pressure regulator adjustable 0 - 1,5 bar
- 1 flashback arrestor acc.to TRAC, BAM approved
- 1 main shut off valve
- 2 high pressure contact with Reed switch complete on aluminum base frame



Technical data		<i>Flow charts see enclosure</i>			
Body	brass	$p_{e \max}$	26 bar	p_a	0 - 1,5 bar
Seals	EPDM, Polyamide, Viton	Q_{\max}	10 Nm ³ /h	$at \ p_a$	1,5 bar
Diaphragm	EPDM	d_e	W21,8x1/14 LH	d_a	G 3/8x10 mm
Leakage rate	1x10 ⁻⁶ mbar l/s	B	500 mm	H	60 mm
Temperature	-20 to +60 °C	T	170 mm	M	12,5 kg

Gas type	Article-no. with contact gauge	Article-no. without contact gauge
acetylene	411 954	410 954