

REGULATORER

HBS 200-1-2



- Høytrykksregulator - Dual scenen
- Montering på 200 bar gass-sylinder - Høy presisjon av reguleringen
- Egnet for rene gasser og blandinger, ikke etsende
- Forkrommet messing

Laboratorier og analyse

Domains of applications

Designed for implementation of:

Ikke-etsende rene gasser opp til N60 inkludert ALPHAGAZ™ 1 & 2, Ikke-korrosive gasser med konsentrasjon som er større enn 1 ppm

Specifications

Maximal inlet pressure at 15°C 200 bar

Outlet Pressure..... 0,05 til 1 bar

Nominal nitrogen flow 2 Nm³/h*

Set pressure 16 bar

Tasso di fuga interno / esterno $\leq 3 \times 10^{-7}$ mbar.l/s di elio., Driftstemperatur: -20 ° C til + 50 ° C.

*garantert ved maksimalt utløpstrykk P2 opp til et innløpstrykk P3 = 2P2 + 1 bar.

Materials

Body	Forkrommet messing
Seat	Første etappe i PCTFE, Andre trinn i messing
Main valve.....	Første etappe i messing, Andre trinn i messing/EPDM
Bellow	Bronse
Pressure gauge	Kobber legering mekanisme, Ø 50mm, Forsegle i PA 6.6
Relief valve	Seal i EPDM, Poppet i messing, Body i 303 rustfritt stål

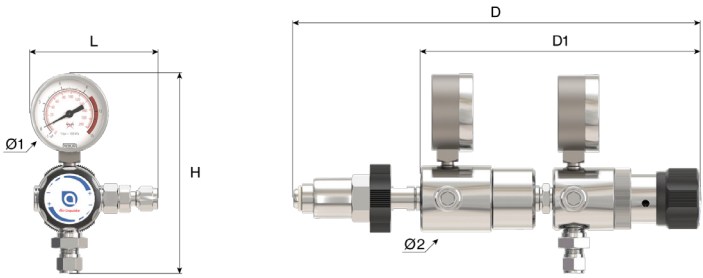
Monel® er et varemerke for Special Metals Corporation.

Safety Alert

⚠ Forsiktighet! Ved bruk av brennbare gasser, skal alle purge og overløpsventiler samles opp.

Dimensions

Length (L) : 90 mm
Height (H) : 129 mm
Depth (D) : 265 mm
Depth (D1) : 183 mm
Ø1 : 50 mm
Ø2 : 44 mm
Net weight : 1.22 kg



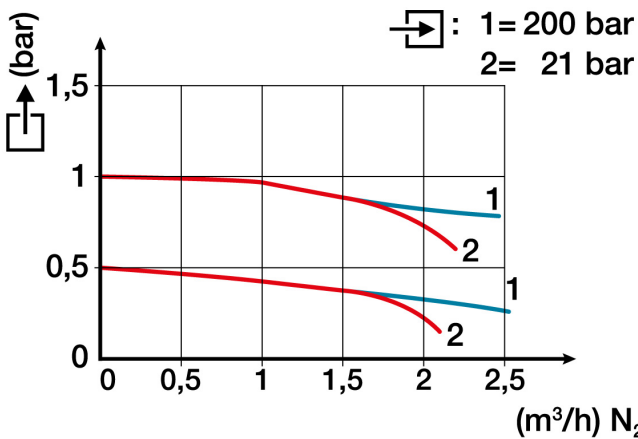
Operating instructions

OP 150 - HBS

Connection

Inlet connection: HP cylinder beslaget ifølge gass
Outlet connection: 2 utløpsporter G 3/8 BSPP hunn
Relief valve connection: Cr-messing Kompresjons montering
6mm, messing Ferrules

Flow curve



Products

Product Number	Short Designation	Gas	Inlet Pressure	Outlet Pressure	Flow	Inlet Fitting	Inlet Fitting Form	Outlet Fitting	Material
122892	REG HBS 200-1-2 DIN 14 - CF 6MM	Ikke-reaktiv blanding	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 14		CF 6mm	Messing
213328	REG HBS 200-1-2 DIN-9	blandinger	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 9	Wrench Cr-Brass	G 3/8 BSPP kvinnelig	Messing
122887	REG HBS 200-1-2 DIN 1/B8 - CF 1/8"	H2	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 1	Wrench Cr-Brass	CF 1/8"	Messing
122888	REG HBS 200-1-2 DIN 1/B8 - CF 6MM	H2	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 1	Wrench Cr-Brass	CF 6mm	Messing
122889	REG HBS 200-1-2 DIN 1/B8 - HN 4MM	H2	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 1	Wrench Cr-Brass	HF 4 / 6mm	Messing
122879	REG HBS 200-1-2 DIN 10 - CF 1/8"	N2	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 10	Wrench Cr-Brass	CF 1/8"	Messing
122880	REG HBS 200-1-2 DIN 10 - CF 6MM	N2	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 10	Wrench Cr-Brass	CF 6mm	Messing
122881	REG HBS 200-1-2 DIN 10 - HN 4MM	N2	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 10	Wrench Cr-Brass	HF 4 / 6mm	Messing
122899	REG HBS 200-1-2 DIN 11 - CF 1/8"	N2O	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 11	Wrench Cr-Brass	CF 1/8"	Messing
122900	REG HBS 200-1-2 DIN 11 - CF 6MM	N2O	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 11	Wrench Cr-Brass	CF 6mm	Messing
122901	REG HBS 200-1-2 DIN 11 - HN 4MM	N2O	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 11	Wrench Cr-Brass	HF 4 / 6mm	Messing
122895	REG HBS 200-1-2 DIN 13 - CF 1/8"	Luft	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 1. 3	Wrench Cr-Brass	CF 1/8"	Messing
122896	REG HBS 200-1-2 DIN 13 - CF 6MM	Luft	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 1. 3	Wrench Cr-Brass	CF 6mm	Messing

Product Number	Short Designation	Gas	Inlet Pressure	Outlet Pressure	Flow	Inlet Fitting	Inlet Fitting Form	Outlet Fitting	Material
122897	REG HBS 200-1-2 DIN 13 - HN 4MM	Luft	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 1. 3	Wrench Cr-Brass	HF 4 / 6mm	Messing
122891	REG HBS 200-1-2 DIN 14 - CF 1/8"	Ikke-reaktiv blanding	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 14	Wrench Cr-Brass	CF 1/8"	Messing
122893	REG HBS 200-1-2 DIN 14 - HN 4MM	Ikke-reaktiv blanding	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 14	Wrench Cr-Brass	HF 4 / 6mm	Messing
122883	REG HBS 200-1-2 DIN 6/B5 - CF 1/8"	CO2, O2	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 6	Wrench Cr-Brass	CF 1/8"	Messing
122884	REG HBS 200-1-2 DIN 6/B5 - CF 6MM	CO2, O2	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 6	Wrench Cr-Brass	CF 6mm	Messing
122885	REG HBS 200-1-2 DIN 6/B5 - HN 4MM	CO2, O2	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 6	Wrench Cr-Brass	HF 4 / 6mm	Messing
193402	REG HBS 200-1-2 DIN 1	H2	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 1	Wrench Cr-Brass	G 3/8 BSPP kvinnelig	Messing
193400	REG HBS 200-1-2 DIN 10	N2	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 10	Wrench Cr-Brass	G 3/8 BSPP kvinnelig	Messing
193405	REG HBS 200-1-2 DIN 11	N2O	200 bar	1 bar	2 Nm³/h	UNI 11144 Nr.9		G 3/8 BSPP kvinnelig	Messing
193404	REG HBS 200-1-2 DIN 13	Luft	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 1. 3	Wrench Cr-Brass	G 3/8 BSPP kvinnelig	Messing
192195	REG HBS 200-1-2 DIN 14		200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 14	Wrench Cr-Brass	G 3/8 BSPP kvinnelig	Messing
193401	REG HBS 200-1-2 DIN 6	CO2, O2	200 bar	1 bar	2 Nm³/h	DIN 477-1 Nr. 6	Wrench Cr-Brass	G 3/8 BSPP kvinnelig	Messing

Options

	Product Number	Long designation
	16516	CONN. G3/8 BSPP M NIP. F/PIPE Ø 4-6MM
	16521	Connector Cr-Brass G3/8 BSPP Male *Compression fitting 1/8" OD Brass *Flat seal PTCFE
	16522	CONNECTION G 3/8" Male Compression Fitting 6 MM Br
	16523	Connector Cr-Brass G3/8 BSPP Male *Compression fitting 1/4" OD Brass *Flat seal PTCFE
	16524	Connector Cr-Brass G3/8 BSPP Male *Compression fitting 10mm OD Brass *Flat seal PTCFE
	16526	Connector Cr-Brass G3/8 BSPP Male *Compression fitting 8mm OD Brass *Flat seal PTCFE
	16532	Connector SS G3/8 BSPP Male *Kit N°2 CF 1/8" and 6mm OD SS *Flat seal PTCFE

	Product Number	Long designation
	16558	Connector SS G3/8 BSPP Male *Compression fitting 6mm OD SS *Flat seal PTCFE
	16562	COMP. FITTING G3/8" 8 MM SS
	16566	Connector SS G3/8 BSPP Male *Compression fitting 1/8" OD SS *Flat seal PTCFE
	16567	Connector SS G3/8 BSPP Male *Compression fitting 10mm OD SS *Flat seal PTCFE
	16569	Connector SS G3/8 BSPP Male *Compression fitting 12mm OD SS *Flat seal PTCFE
	19207	LEAK DETECTOR "1000 BULLES"
	19286	Connection G3/8 BSPP M NIP. Ø 8-10MM BR

Spare parts

Product Number		Long designation
122892	15969	PRESSURE GAUGE 0- 200/315 Bar Ø 50mm Vertical Entry M10x1 Brass-Cr - Body S.Steel
	17141	FLAT SEAL in PTCFE 14,5x10x2 for outlet port G3/8
	29226	FLAT SEAL in PTCFE (Kel-F®) 16x9,2x2
213328	15969	PRESSURE GAUGE 0- 200/315 Bar Ø 50mm Vertical Entry M10x1 Brass-Cr - Body S.Steel

Product Number		Long designation
213328	16000	PRESSURE GAUGE (-1) - 1,5 Bar Ø 50mm Lateral Entr
	17141	FLAT SEAL in PTCFE 14,5x10x2 for outlet port G3/8
122887	17141	FLAT SEAL in PTCFE 14,5x10x2 for outlet port G3/8
	17203	FLAT SEAL in PTCFE 18x11,8x2 for inlet connection

Product Number		Long designation
122887	29053	FLAT SEAL in PA 6.6 20x12x2
	167800	KIT of Seals flat PA 6.6 for manometer M10x1 (2 s
122888	17141	FLAT SEAL in PTFCE 14,5x10x2 for outlet port G3/8
	17203	FLAT SEAL in PTFCE 18x11,8x2 for inlet connection
	29053	FLAT SEAL in PA 6.6 20x12x2
	167800	KIT of Seals flat PA 6.6 for manometer M10x1 (2 s
122889	15969	PRESSURE GAUGE 0- 200/315 Bar Ø 50mm Vertical Entry M10x1 Brass-Cr - Body S.Steel
	16008	Manometer 0+0,1+0,16 BAR Ø50 Vertikal Anslutning. M10x1
	17141	FLAT SEAL in PTFCE 14,5x10x2 for outlet port G3/8
	17203	FLAT SEAL in PTFCE 18x11,8x2 for inlet connection
122879	15969	PRESSURE GAUGE 0- 200/315 Bar Ø 50mm Vertical Entry M10x1 Brass-Cr - Body S.Steel
	16008	Manometer 0+0,1+0,16 BAR Ø50 Vertikal Anslutning. M10x1
	17141	FLAT SEAL in PTFCE 14,5x10x2 for outlet port G3/8
	29053	FLAT SEAL in PA 6.6 20x12x2
122880	15969	PRESSURE GAUGE 0- 200/315 Bar Ø 50mm Vertical Entry M10x1 Brass-Cr - Body S.Steel
	16008	Manometer 0+0,1+0,16 BAR Ø50 Vertikal Anslutning. M10x1
	17141	FLAT SEAL in PTFCE 14,5x10x2 for outlet port G3/8
	29053	FLAT SEAL in PA 6.6 20x12x2
122881	15969	PRESSURE GAUGE 0- 200/315 Bar Ø 50mm Vertical Entry M10x1 Brass-Cr - Body S.Steel
	16008	Manometer 0+0,1+0,16 BAR Ø50 Vertikal Anslutning. M10x1
	17141	FLAT SEAL in PTFCE 14,5x10x2 for outlet port G3/8
	29053	FLAT SEAL in PA 6.6 20x12x2
122899	15969	PRESSURE GAUGE 0- 200/315 Bar Ø 50mm Vertical Entry M10x1 Brass-Cr - Body S.Steel
	15999	PRESSURE GAUGE (-1) - 5 Bar Ø 50mm Lateral Entry
	17141	FLAT SEAL in PTFCE 14,5x10x2 for outlet port G3/8
	29053	FLAT SEAL in PA 6.6 20x12x2
	29186	FLAT SEAL PA 6-6 14x9x2
122900	15969	PRESSURE GAUGE 0- 200/315 Bar Ø 50mm Vertical Entry M10x1 Brass-Cr - Body S.Steel
	15999	PRESSURE GAUGE (-1) - 5 Bar Ø 50mm Lateral Entry
	17130	O-RING in EPDM R9 10,5x2,7 mm EP851 for inlet connection brass - type C/B4 & E(NF)
	17141	FLAT SEAL in PTFCE 14,5x10x2 for outlet port G3/8

Product Number		Long designation
122900	29053	FLAT SEAL in PA 6.6 20x12x2
	29186	FLAT SEAL PA 6-6 14x9x2
122901	15969	PRESSURE GAUGE 0- 200/315 Bar Ø 50mm Vertical Entry M10x1 Brass-Cr - Body S.Steel
	15999	PRESSURE GAUGE (-1) - 5 Bar Ø 50mm Lateral Entry
	17141	FLAT SEAL in PTFCE 14,5x10x2 for outlet port G3/8
	29053	FLAT SEAL in PA 6.6 20x12x2
	29186	FLAT SEAL PA 6-6 14x9x2
122895	15969	PRESSURE GAUGE 0- 200/315 Bar Ø 50mm Vertical Entry M10x1 Brass-Cr - Body S.Steel
	17141	FLAT SEAL in PTFCE 14,5x10x2 for outlet port G3/8
	29053	FLAT SEAL in PA 6.6 20x12x2
	29187	PACKNING 18X11,8X2 MM NYLON (Bag of 10)
	167800	KIT of Seals flat PA 6.6 for manometer M10x1 (2 s
122896	17141	FLAT SEAL in PTFCE 14,5x10x2 for outlet port G3/8
	18552	PRESSURE GAUGE 0-25 Bar Ø 50mm Vertical Entry G1/4
	29053	FLAT SEAL in PA 6.6 20x12x2
	29187	PACKNING 18X11,8X2 MM NYLON (Bag of 10)
	167800	KIT of Seals flat PA 6.6 for manometer M10x1 (2 s
122897	17141	FLAT SEAL in PTFCE 14,5x10x2 for outlet port G3/8
	18547	PRESSURE GAUGE 0-100 Bar Ø 50mm Lateral Entry G1/
	29053	FLAT SEAL in PA 6.6 20x12x2
	29187	PACKNING 18X11,8X2 MM NYLON (Bag of 10)
	167800	KIT of Seals flat PA 6.6 for manometer M10x1 (2 s
122891	15979	Pressure gauge 0-200+315 Bar Ø 50mm vertical M10x1 Stainless steel
	16015	PRESSURE GAUGE (-1) - 15 Bar Ø 50mm Lateral Entry
	17141	FLAT SEAL in PTFCE 14,5x10x2 for outlet port G3/8
	29053	FLAT SEAL in PA 6.6 20x12x2
	29226	FLAT SEAL in PTFCE (Kel-F®) 16x9,2x2
122893	15979	Pressure gauge 0-200+315 Bar Ø 50mm vertical M10x1 Stainless steel
	16015	PRESSURE GAUGE (-1) - 15 Bar Ø 50mm Lateral Entry
	17141	FLAT SEAL in PTFCE 14,5x10x2 for outlet port G3/8
	29053	FLAT SEAL in PA 6.6 20x12x2

Product Number		Long designation
122893	29226	FLAT SEAL in PTCFE (Kel-F®) 16x9,2x2
122883	15969	PRESSURE GAUGE 0- 200/315 Bar Ø 50mm Vertical Entry M10x1 Brass-Cr - Body S.Steel
	16008	Manometer 0+0,1+0,16 BAR Ø50 Vertikal Anslutning. M10x1
	17141	FLAT SEAL in PTCFE 14,5x10x2 for outlet port G3/8
122884	15969	PRESSURE GAUGE 0- 200/315 Bar Ø 50mm Vertical Entry M10x1 Brass-Cr - Body S.Steel
	17130	O-RING in EPDM R9 10,5x2,7 mm EP851 for inlet connection brass - type C/B4 & E(NF)
	17141	FLAT SEAL in PTCFE 14,5x10x2 for outlet port G3/8
122885	15969	PRESSURE GAUGE 0- 200/315 Bar Ø 50mm Vertical Entry M10x1 Brass-Cr - Body S.Steel
	17141	FLAT SEAL in PTCFE 14,5x10x2 for outlet port G3/8
193402	15979	Pressure gauge 0-200+315 Bar Ø 50mm vertical M10x1 Stainless steel
	16021	Pressure gauge 0+70+100 Bar Ø 50mm Vertical M10x1 Stainless steel
	17203	FLAT SEAL in PTCFE 18x11,8x2 for inlet connection
	29053	FLAT SEAL in PA 6.6 20x12x2
193400	17141	FLAT SEAL in PTCFE 14,5x10x2 for outlet port G3/8
	18552	PRESSURE GAUGE 0-25 Bar Ø 50mm Vertical Entry G1/4
	29053	FLAT SEAL in PA 6.6 20x12x2
	167800	KIT of Seals flat PA 6.6 for manometer M10x1 (2 s
193405	17141	FLAT SEAL in PTCFE 14,5x10x2 for outlet port G3/8
	18547	PRESSURE GAUGE 0-100 Bar Ø 50mm Lateral Entry G1/
	29053	FLAT SEAL in PA 6.6 20x12x2
	29186	FLAT SEAL PA 6-6 14x9x2
	167800	KIT of Seals flat PA 6.6 for manometer M10x1 (2 s
193404	15979	Pressure gauge 0-200+315 Bar Ø 50mm vertical M10x1 Stainless steel
	16015	PRESSURE GAUGE (-1) - 15 Bar Ø 50mm Lateral Entry
	17141	FLAT SEAL in PTCFE 14,5x10x2 for outlet port G3/8
	29053	FLAT SEAL in PA 6.6 20x12x2
	29187	PACKNING 18X11,8X2 MM NYLON (Bag of 10)
192195	15979	Pressure gauge 0-200+315 Bar Ø 50mm vertical M10x1 Stainless steel
	16019	PRESSURE GAUGE (-1) - 1,5 Bar Ø 50mm Lateral Entr
	17141	FLAT SEAL in PTCFE 14,5x10x2 for outlet port G3/8
	29053	FLAT SEAL in PA 6.6 20x12x2

Product Number		Long designation
192195	29226	FLAT SEAL in PTCFE (Kel-F®) 16x9,2x2
193401	15969	PRESSURE GAUGE 0- 200/315 Bar Ø 50mm Vertical Entry M10x1 Brass-Cr - Body S.Steel
	16000	PRESSURE GAUGE (-1) - 1,5 Bar Ø 50mm Lateral Entr
	17141	FLAT SEAL in PTCFE 14,5x10x2 for outlet port G3/8