

# Hochdruckregler 60bar - G<sup>1/4</sup> - G 1



Druckregler regulieren den Leitungsdruck ( $p_1$ ) einer Druckluftanlage auf den eingestellten Arbeitsdruck/Sekundärdruck ( $p_2$ ) und halten diesen, unabhängig von Druckschwankungen und Luftverbrauch, weitgehend konstant. Druckregler (Kolbenbauart) in Durchgangform. Sekundärentlüftung (Rücksteuerung), weitgehende Vordruckunabhängigkeit und Mengenkompensation sind gegeben.

Regelbereiche für  $p_2$  von 0,5 bis 12, 20, 35 und 50 bar. Einstellung mit Knebel. Manometer beidseitig montierbar. Schalttafelbefestigung oder Halterungs-Set als Zubehör erhältlich.

**Hinweis:** Um Ausfälle zu vermeiden, sollte ein Druckluftfilter vorgeschaltet werden.

**Auch zur Verwendung mit neutralen und ungiftigen Gasen geeignet.**

## Standardausführungen:

Regelbereich 0,5-12bar, mit Manometer

Baugröße	Bestell-Nr.			
	Anschlussgewinde			
	G <sup>1/4</sup>	G <sup>3/8</sup>	G <sup>1/2</sup>	G 1
I	302.323	302.333	-	-
II	-	-	302.363	-
III	-	-	-	302.393

## Bestellschlüssel für alle Varianten:

302.xxx

3 - 0,5-12bar	} Regelbereich Sekundärdruck ( $p_2$ )
4 - 1,0-20bar	
5 - 2,0-35bar	
6 - 3,0-50bar	
2 - G <sup>1/4</sup> BG I	} Anschlussgewinde
3 - G <sup>3/8</sup> BG I	
6 - G <sup>1/2</sup> BG II	
9 - G 1 BG III	
3 - mit Manometer	}
5 - ohne Manometer	

zum Beispiel:

302.333 - ohne Manometer und 2,0-35bar = 302.535

## Ersatzteile und Zubehör

	Bestell-Nr.	
	BG I u. II	BG III
<b>Halterungs-Set</b> zur Befestigung unten am Deckel bzw. an den Befestigungsschrauben	274-48	302-19
<b>Manometer</b> waagrecht, ø63, Anzeigebereiche: 0-16 bar (für $p_2$ bis 12 bar)	215	215
0-25 bar (für $p_2$ bis 20 bar)	216	216
0-40 bar (für $p_2$ bis 35 bar)	217	217
0-60 bar (für $p_2$ bis 50 bar)	218	218
<b>Dichtkegel</b> komplett	406-37	302-6

Manometer siehe Kapitel 11

## Technische Daten

	BG I		BG II	BG III
<b>Anschlussgewinde</b>	G <sup>1/4</sup>	G <sup>3/8</sup>	G <sup>1/2</sup>	G 1
<b>Nenndurchfluss (NI/min)*</b>	2000	2500	3500	5000
<b>Max. Betriebsdruck (<math>p_1</math>)</b>	60bar (PN60)			
<b>Max. Sekundärdruck (<math>p_2</math>) (Regelbereich)</b>	0,5 bis 12, 20, 35 und 50bar			
<b>Betriebstemperatur</b>	-10°C bis +90°C			
<b>Einbaulage</b>	beliebig			
<b>Durchflussrichtung</b>	Pfeil beachten			
<b>Nennweite</b>	DN 12		DN 12	DN 20
<b>Gewicht</b>	1500g		1500g	6500g
<b>Material</b>	- Dichtungen - Gehäuse		NBR Messing	

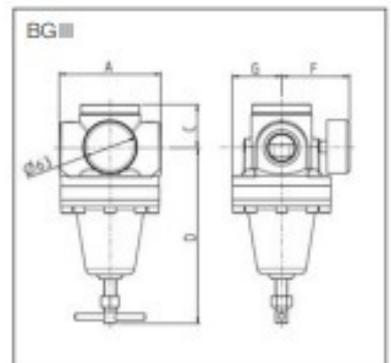
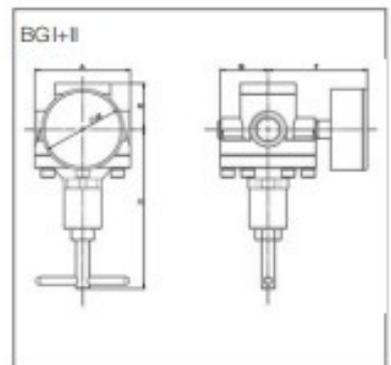
\* gemessen bei  $p_1 = 20$  bar,  $p_2 = 10$  bar und  $\Delta p = 4$  bar

## Abmessungen [mm]

BG	I	II	III
<b>Anschlussgewinde</b>	G <sup>1/4</sup> , G <sup>3/8</sup>	G <sup>1/2</sup>	G 1
A	72	72	118
C	35	35	51
D	133	121	206
F	66	75	80
G	36	36	58



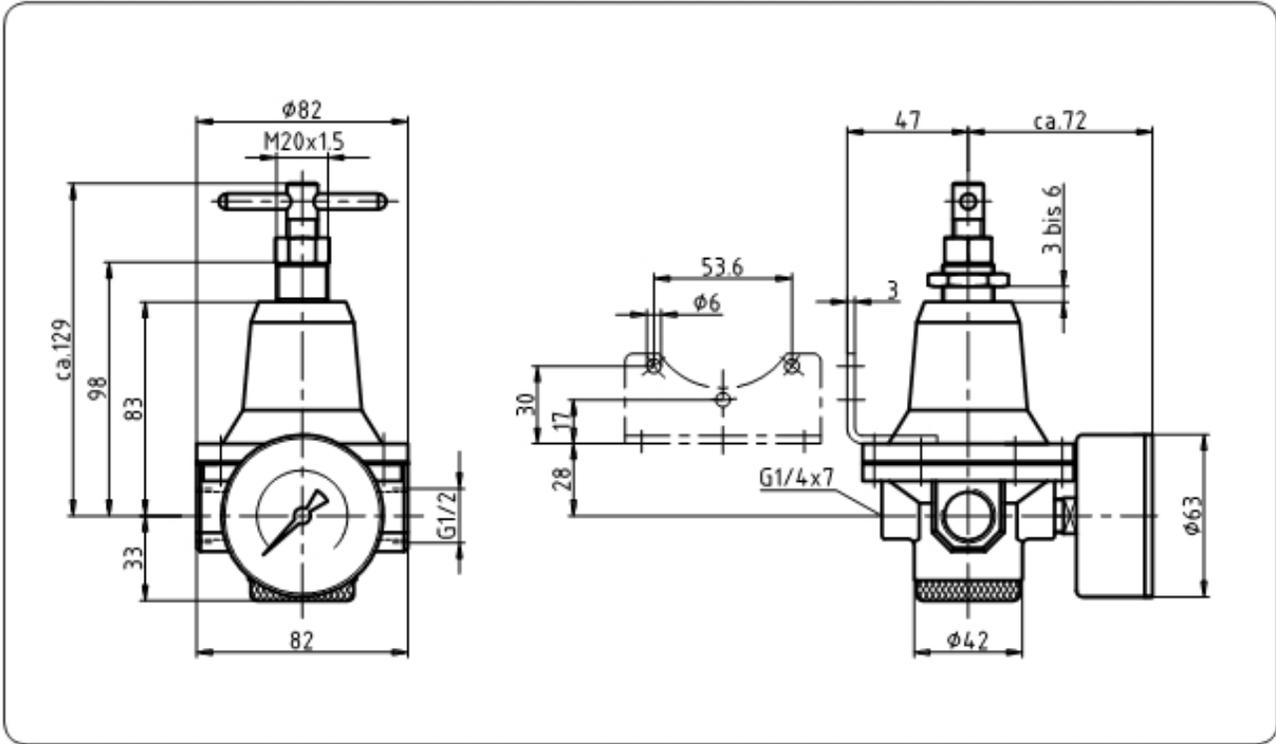
**Hinweis:** Manometer lose beigelegt



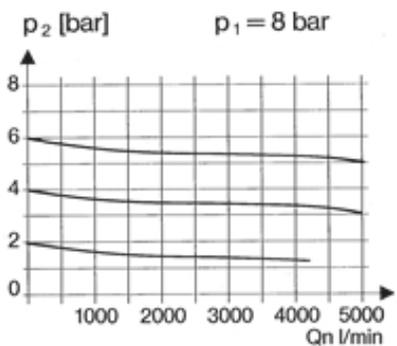
Befestigungs- und Verbindungselemente ab Seite 47



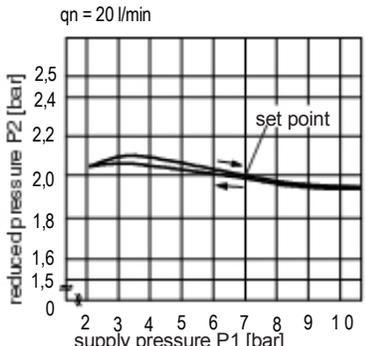
dimensions (mm)



flow characteristics



pressure characteristics



accessories

panel mounting ring M 20 x 1,5

type: DR.11-7

gauge

type:  
G 63. 6 R  
G 63.10R  
G 63.16R  
G 63.25R

mounting bracket

type: BW.30

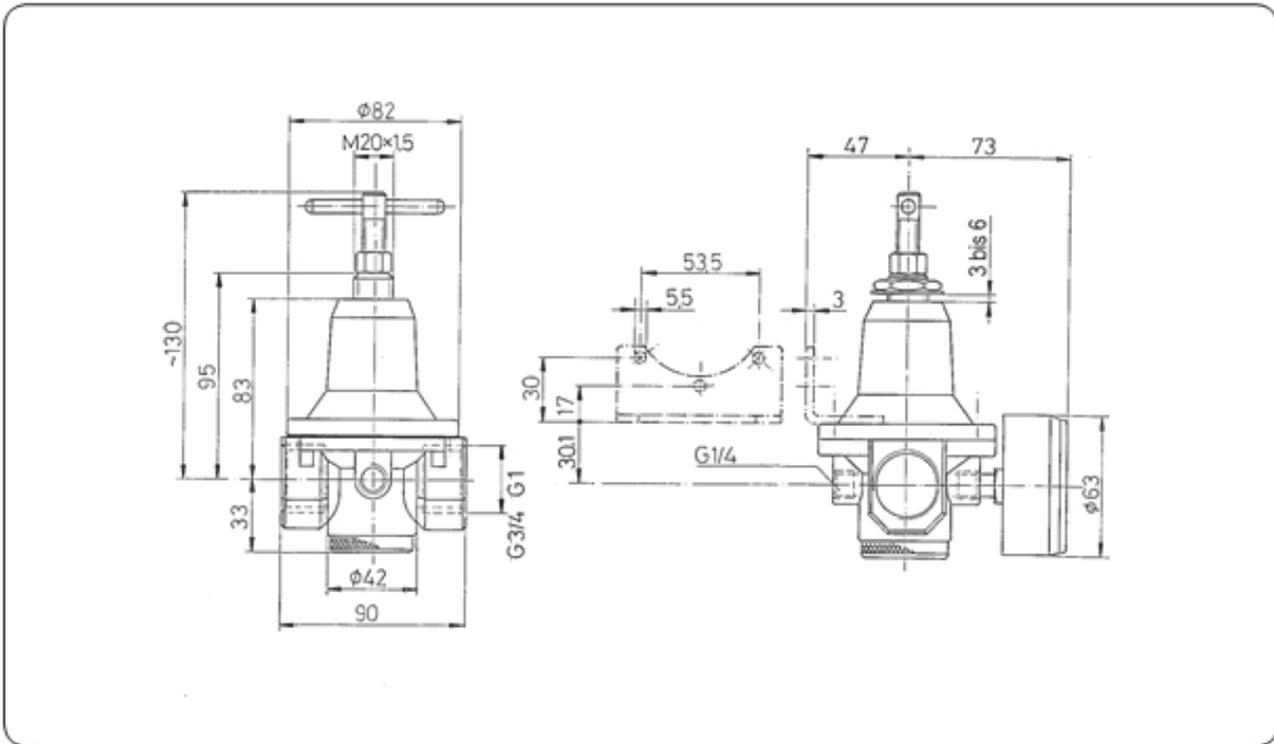
spring

type:  
0,1- 3: DR.33-9  
0,5- 6: DR.33-35  
0,5-16:DR.33-12

technical modifications keep in reserve!

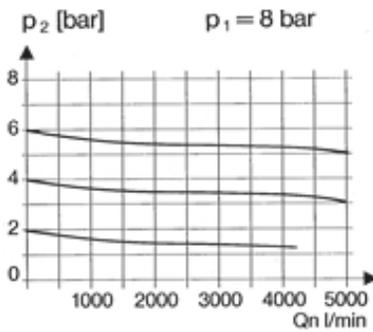


**dimensions (mm)**

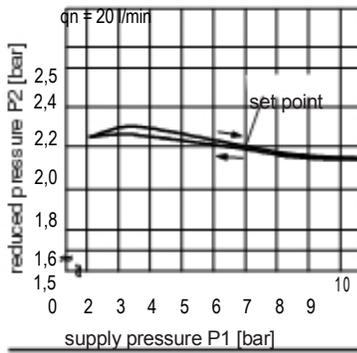


technical modifications keep in reserve!

**flow characteristics**



**pressure characteristic**



**accessories**

panel mounting ring M 20 x 1,5



type: DR.11-7

gauge



type:  
G 63. 6 R  
G 63.10 R  
G 63.16 R

mounting bracket



type: BW.30

spring



type:  
0,1- 3: DR.33- 9  
0,5- 6: DR.22- 6  
0,5-16:DR.33-12

page: D.R.35 (08/08)

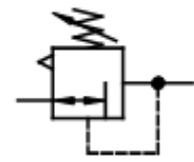
# Regulator STANDARD-SERIES

item	type	DR.54	DR.55
port size		G 3/4	G 1
description air line regulator with diaphragm and relieving feature			
mounting arbitrary			
supply pressure Pe max. 40 bar			
reduced pressure Pa 0,5-10 bar Standard, 0,1-3 bar, 0,5-6 bar, 0,5-16 bar			
media and ambient temperature max. 80°C (oth. temperature ranges available upon request)			
fixing bracket			
weight 2,200 kg, (2,100 kg without gauge)			



**replacement parts** ( repair kit: ESA-DR.55 )

no	description	material	order-no
1	body	Al	---
2	spring cage DR.55	Al - Ms	8.1555.02.000.1
3	diaphragm	NBR - Ms	
4	valve cone	NBR - Ms	
5	regulat. spring DR.55-10	st. - galvanized	5.1555.10.000
6	spring DR.55-22	stainless steel	5.1555.22.000



**series 5**

ordering information

**DR. \*\* \* \***

type		reduced pressure	
port size		options	

ordering example: DR.55 G 0,5-3

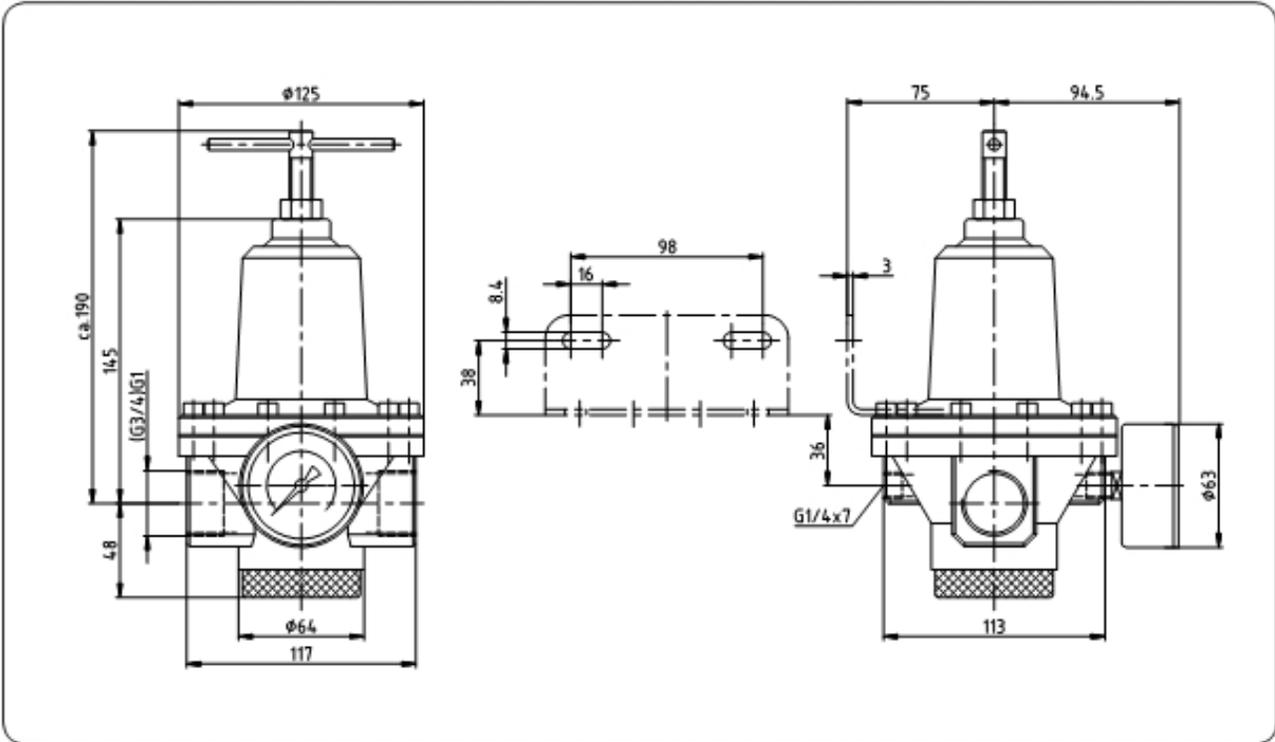
port size	
1	54 G 3/4
	55 G 1
options	
2	G gauge ø63

**application information**

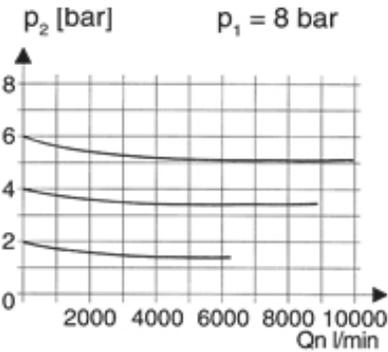
technical modifications keep in reserve!

page: DR.55 (08/08)

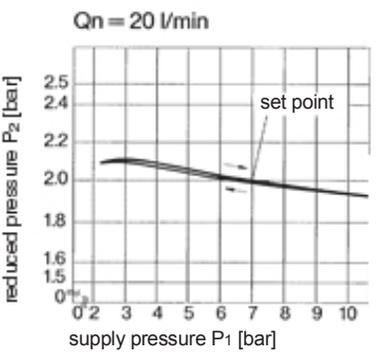
**dimensions (mm)**



**flow characteristics**



**pressure characteristics**



**accessories**

mounting bracket

type: BW.50

gauge

type:  
G 63. 6 R  
G 63.10 R  
G 63.16 R  
G 63.25 R

spring

type:  
0,5- 3: DR.55-29  
0,5- 6: DR.55-30  
0,5-16: DR.55-28

spring

type:  
0,5- 3: DR.55-29  
0,5- 6: DR.55-30  
0,5-16: DR.55-28

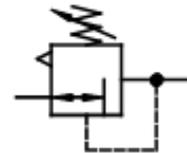
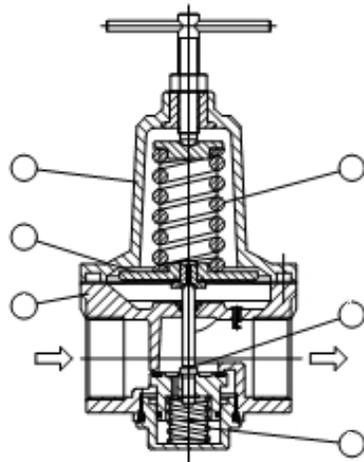
# Regulator

# STANDARD-SERIES

item	type	DR.76	DR.77
port size		G 1 1/4	G 1 1/2
description		air line regulator with diaphragm and relieving feature	
mounting		arbitrary	
supply pressure		Pe max. 40 bar	
reduced pressure		Pa 0,5-10 bar standard, 0,5-3 bar, 0,5-6 bar, 0,5-16 bar	
media and ambient			
temperature		max. 80°C (oth. temperature ranges available upon request)	
fixing		bracket	
weight		2,600 kg, (2,500 kg without gauge )	



technical modifications keep in reserve!



## series 7

### ordering information

**DR. \*\* \* \***  
 type   reduced pressure   
 port size  option

ordering example: DR.77 G 0,5-3

### replacement parts

( repair kit: ESA-DR.77 )

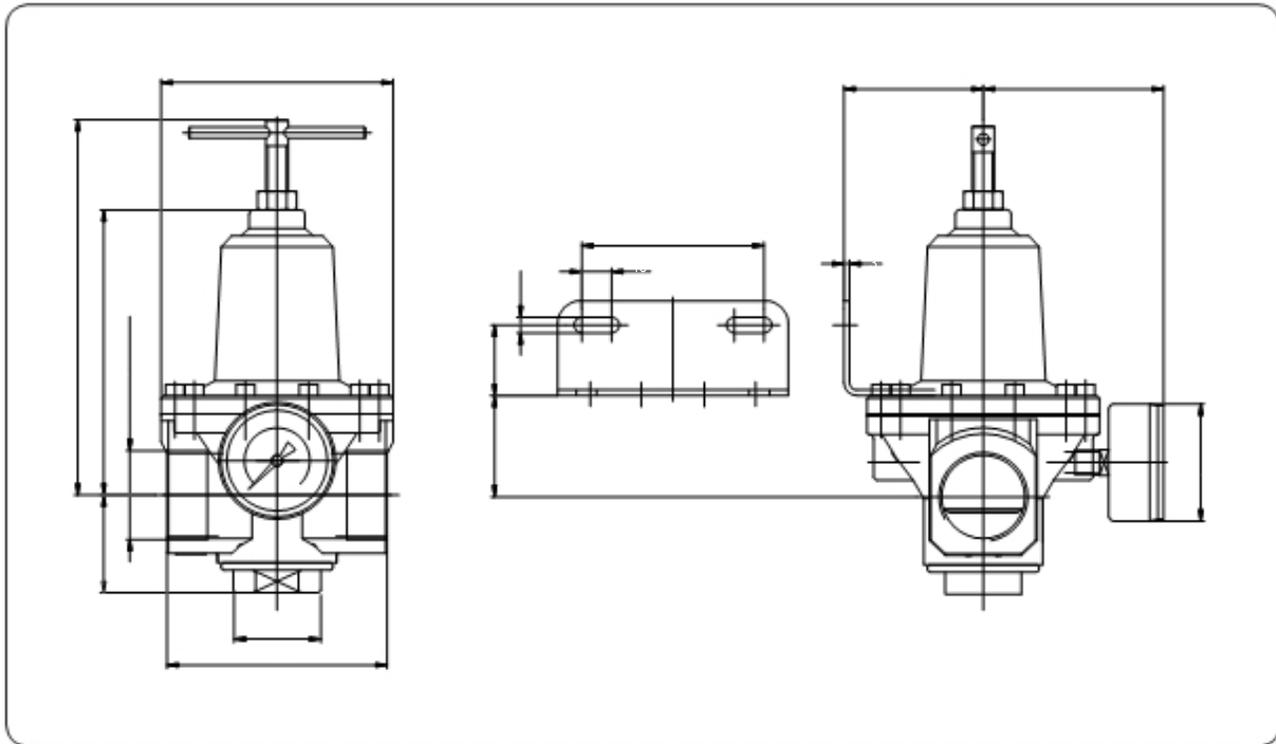
no	description	material	order-no
1	body	Z 410	
2	spring cage	DR.55 Al - Ms	0.1555.02.000.1
3	diaphragm	NBR - Ms	
4	valve cone	NBR - Ms	
5	regulat. spring	DR.55-10 st. - galvanized	5.1555.10.000
6	spring	DR.77-5 stainless steel	5.1577.05.000

### application information

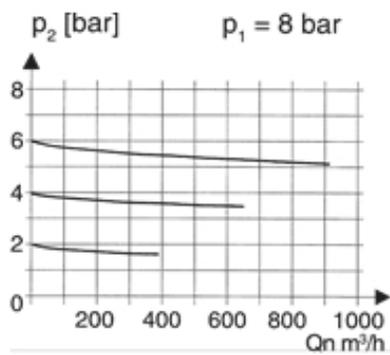
port size	
1	76 - G 1 1/4
	77 - G 1 1/2
options	
G gauge ø60	
2	

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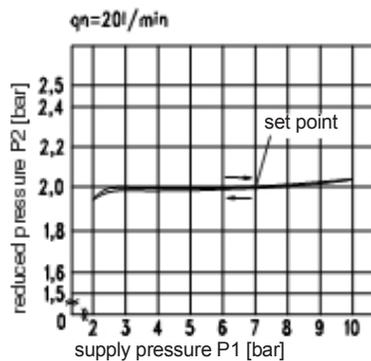
## dimensions (mm)



### flow characteristics



### pressure characteristics



### accessories

mounting bracket



type: BW.50

gauge

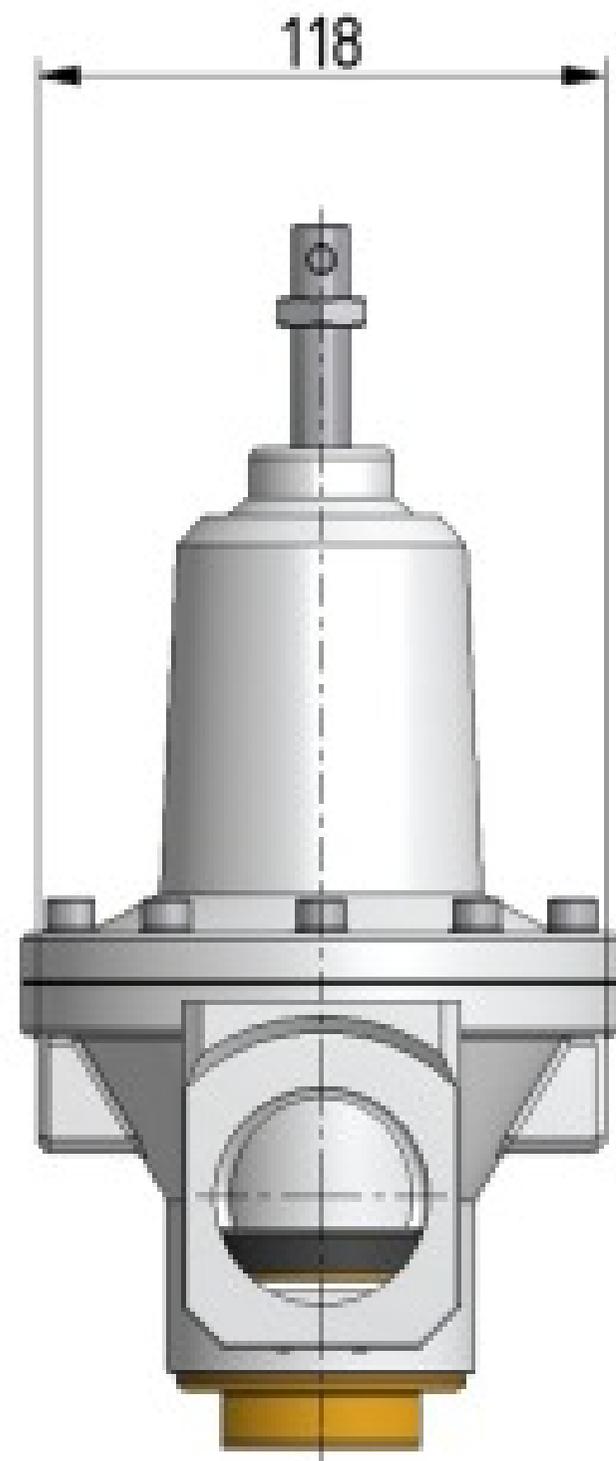
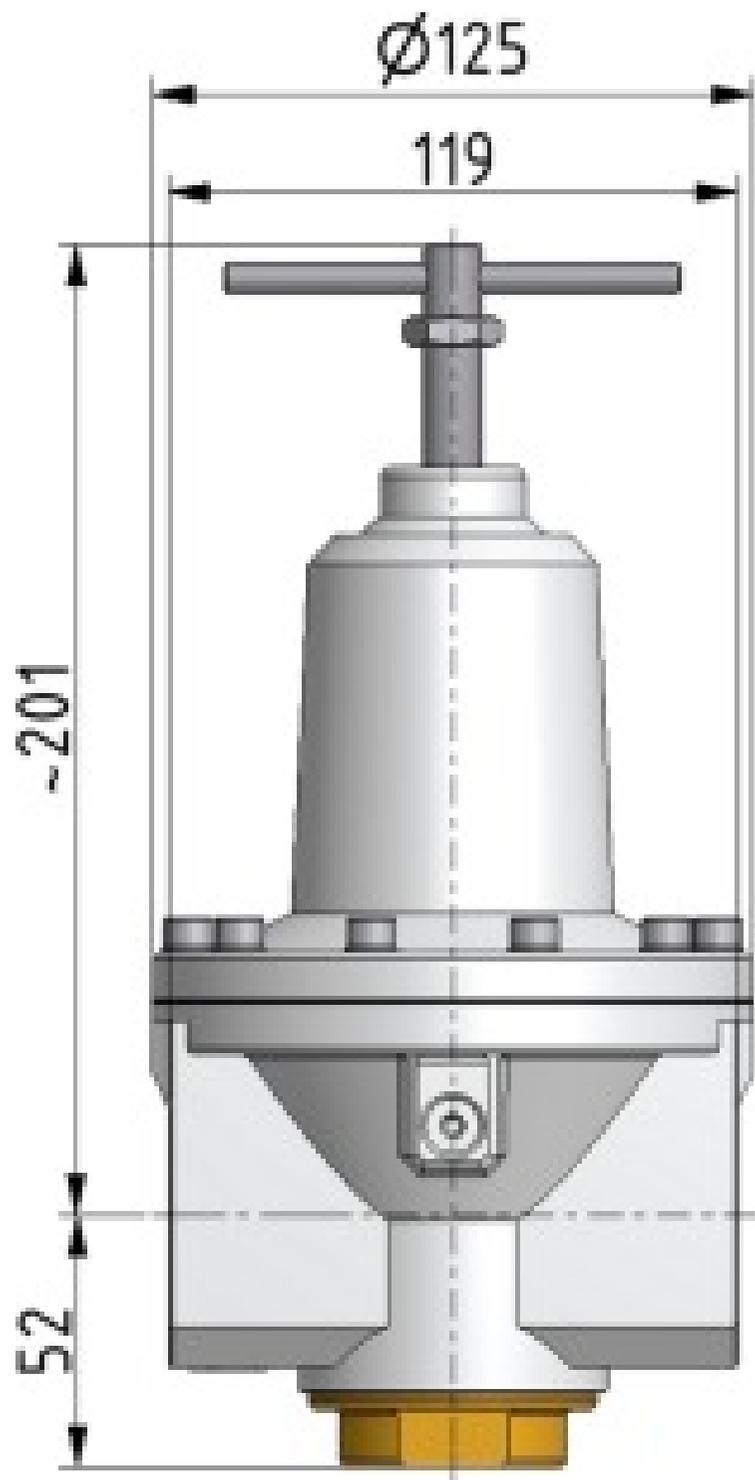


type:  
G 63. 6 R  
G 63.10 R  
G 63.16 R  
G 63.25 R

spring



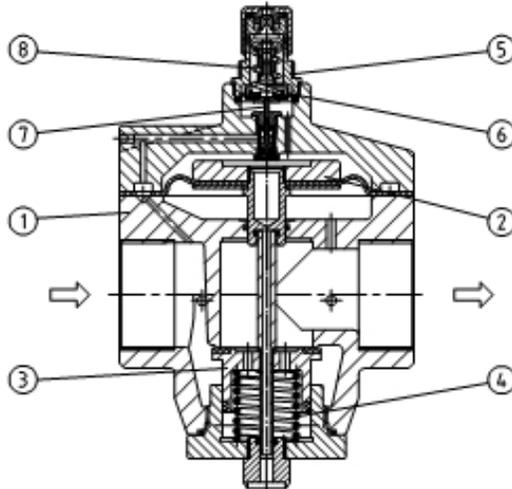
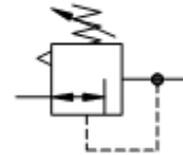
type:  
0,5- 3: DR.55-29  
0,5- 6: DR.55-30  
0,5-16: DR.55-28



# Regulator G 1 1/2, G 2



item	type	DRP.87	DRP.88
port size		G 1 1/2	G 2
description			
air line regulator with diaphragm and relieving feature, pilot controlled			
mounting			
arbitrary			
supply pressure			
Pe max. 25 bar			
reduced pressure			
Pa 0,5-10 bar standard, 0,1-3 bar, 0,5-6 bar, 0,5-16 bar			
media and ambient			
temperature			
max. 60°C (other temperature ranges available upon request)			
fixing			
install in pipe line			
weight			
4,970 kg			



### replacement parts

(repair kit: ESA-DRP.88)

no	description	material	order-no
1	body	Al	---
2	diaphragm complete	NBR-Ms-St galv.	
3	valve cone	NBR - Ms	
4	spring	DR.88-6 stainless steel	5.1588.06.000
5	spring cage	C.00-72 POM - Ms	8.2100.72.000
6	diaphragm	NBR - Ms	
7	valve cone	NBR - Ms	
8	regulat. spring	C.11-83 st - galvanized	5.2111.83.000

### application information

- adjusting knob can be locked by depressing

### series 8

### ordering information

DRP. \* \* \* \*  
 type  reduced pressure  
 1 port size  2 option

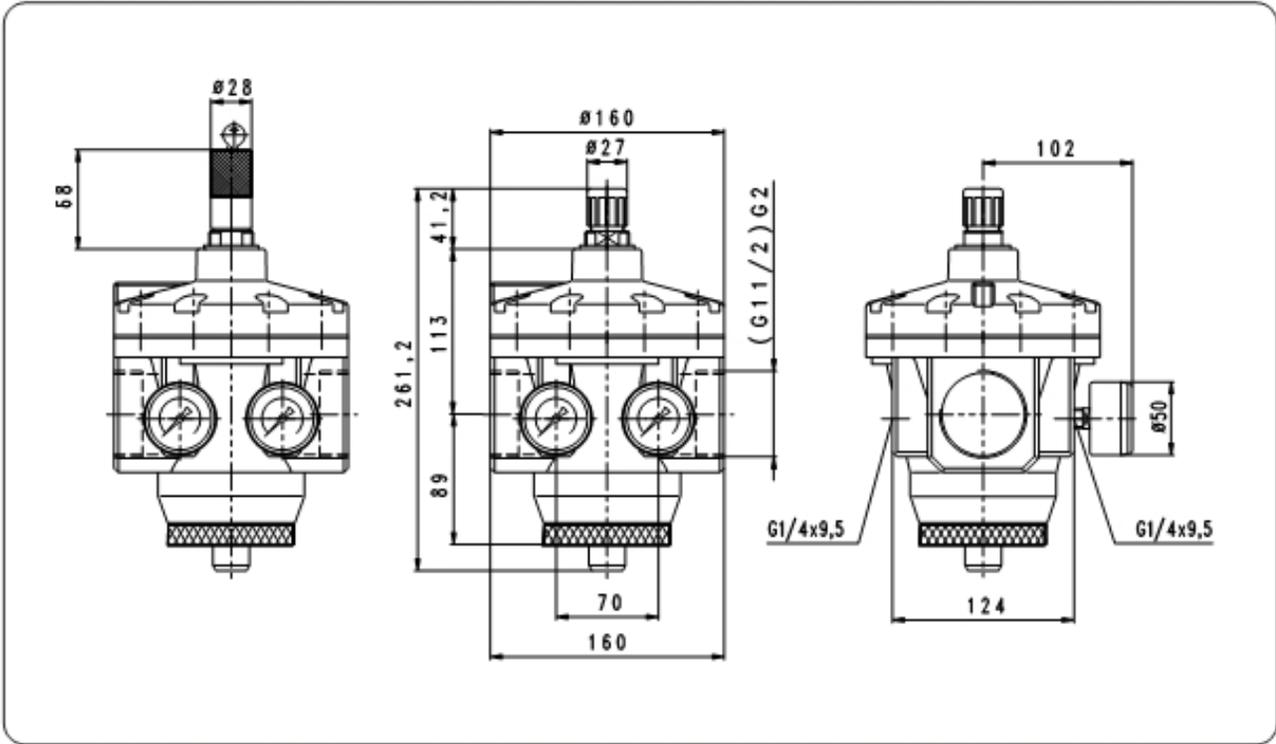
ordering example: DRP.88 G 0,1-3

port size	
1	87 G 1 1/2
	88 G 2
2	
options	
2	G gauge ø50
	K keylock

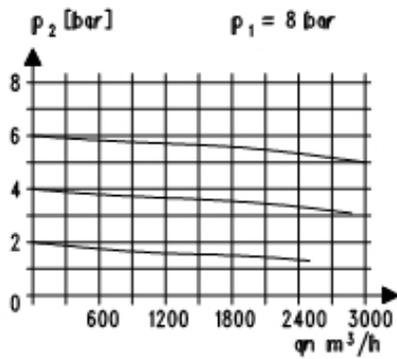
technical modifications keep in reserve!

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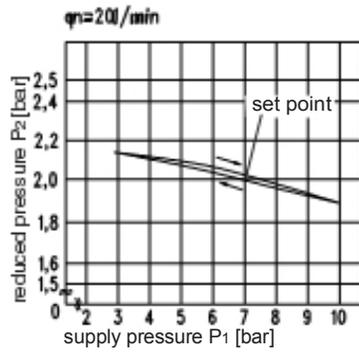
dimensions (mm)



flow characteristics



pressure characteristics



accessories

gauge

type:  
G 50. 3/ 6 R  
G 50. 6/10 R  
G 50.10/16 R

spring

type:  
0,1- 3: C.11-81  
0,5- 6: C.11-82  
0,5-16: C.11-66

