

Pressure Filters

DHP DIN Series Filters

Flows to 400 L/min (106 USgpm)
Pressures to 400 bar (5,801 psi)

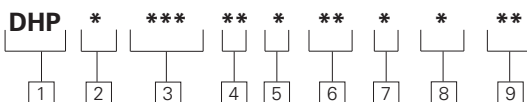


Features and Benefits

- Beta Ratio: $\beta_{x(c)} = 1000$ to ISO 16889
- Designed to Comply with DIN 24550 specifications
- Fatigue rated: 063, 100, and 250 size:(400 bar)
400 size: (210 bar)
- Visual and electrical indicators with light options for system design flexibility
- High efficiency six layer media elements
- Bypass and non-bypass options available

DESIGN SPECIFICATIONS

Rated flow:	063	63L/min (16.6USgpm)
	100	100L/min (26.4USgpm)
	250	250L/min (66.0USgpm)
	400	400L/min (105.7USgpm)
Housing & Element Compatibility:	Compatible with most petroleum oil, water glycol, and oil in-water fluids. Optional seals available for phosphate esters.	
Temp range:	-10°C to + 100°C (+14°F to +212°F)	
Pressure rating:	Operating	063, 100, 250
		400
Material:	Nodular Iron and Steel	
Dry weight: (Approximate with element)	063	6.0kg (13.2lbs.)
	100	7.5kg (16.5lbs.)
	250	13.0kg (28.6lbs.)
	400	28.0kg (61.7lbs.)



DHP Series Filter Model Code

Sample model code:
DHP1100BD6ANBC06

1 Filter Series

DHP - DIN High Pressure

2 Element Collapse Rating

1 - 30 bar (435 psi) Low Collapse
4 - 160 bar (2320 psi) High Collapse

3 Nominal Size

063 - 63L/min (16.6USgpm)
100 - 100L/min (26.4USgpm)
250 - 250L/min (66.0USgpm)
400 - 400L/min (105.7USgpm)

4 Port Size

TYPE	PORT SIZE	FILTER SIZE			
		63	100	250	400
BC	G 3/4	•			
BD	G 1		•		
BE	G 1-1/2			•	
BK	DN38				•

5 Valve Options

1 - Non-Bypass
6 - Bypass set at 7 bar (100 psi) cracking pressure

6 Indicator Options

AN- Visual 5 bar (70 psi), No Connector
JN- No Indicator, No Connector
TB- Electrical 5 bar (70 psi), Brad Harrison Connector
TH- Electrical 5 bar (70 psi), Hirschmann

7 Seal Material

B - Buna-N
V - Viton-A
Viton is a registered trademark of E.I. DuPont

8 Element Construction

C - Standard Construction
H - High Collapse Construction
X - no element

9 Media Code

03 - 16/14/12 or better
06 - 18/16/14 or better
10 - 20/18/15 or better
25 - 22/19/16 or better
XX - no element

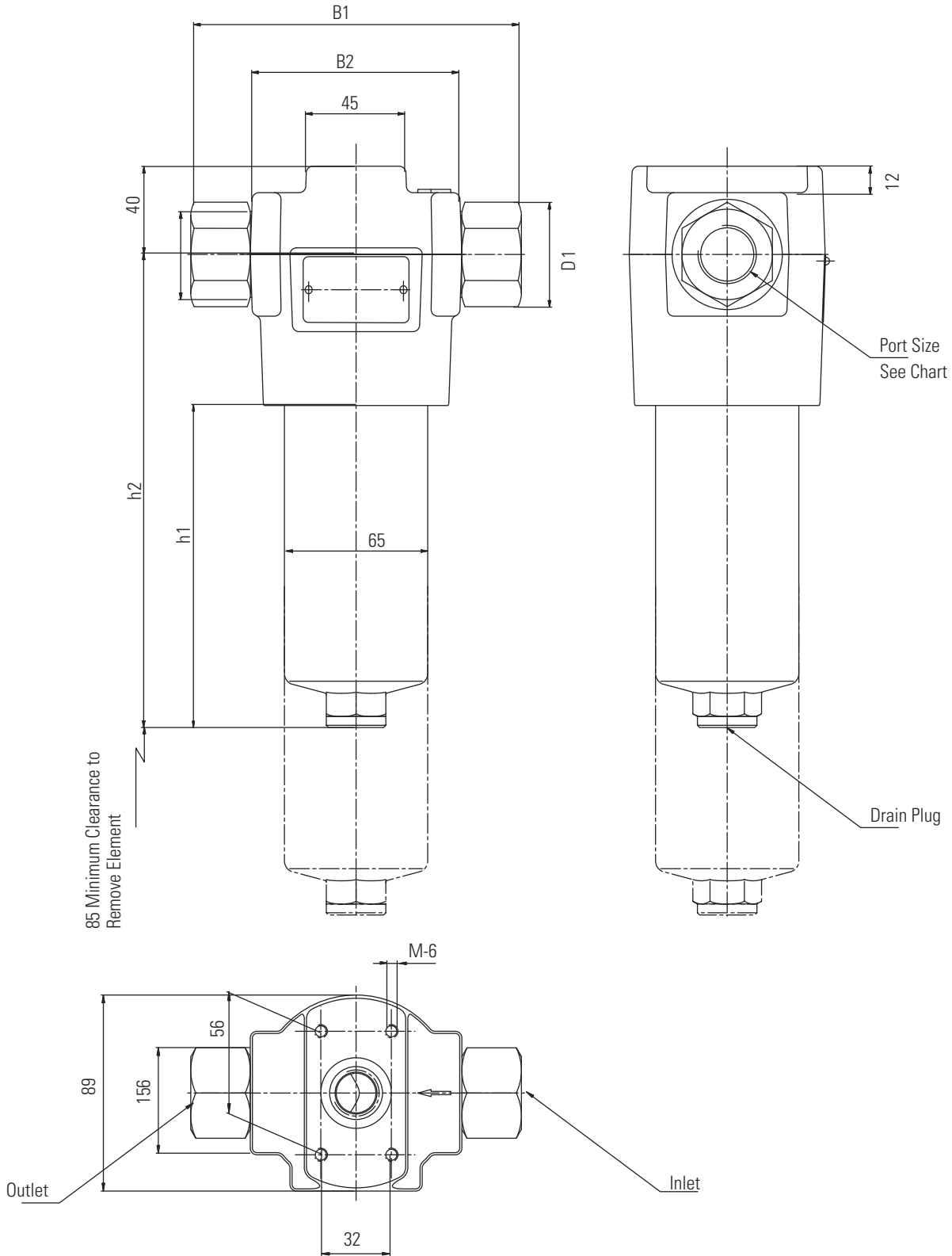
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Dimensions DHP 063, 100 Series



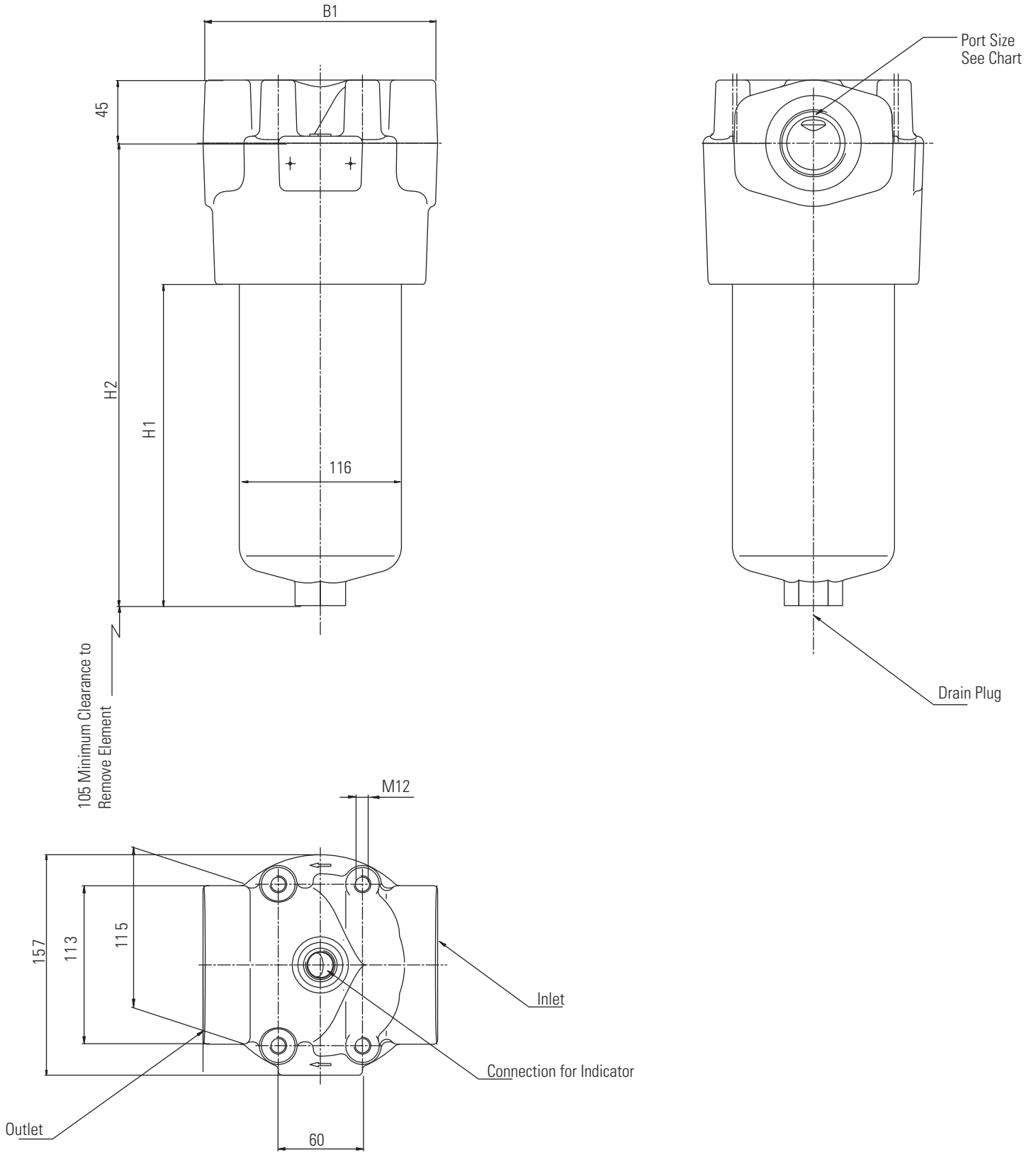
Pressure Filters

DHP DIN Series

Filters

Flows to 400 L/min (106 USgpm)
Pressures to 400 bar (5,801 psi)

Dimensions DHP 250 and 400 Series



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Flows to 400 L/min (106 USgpm)
Pressures to 400 bar (5,801 psi)

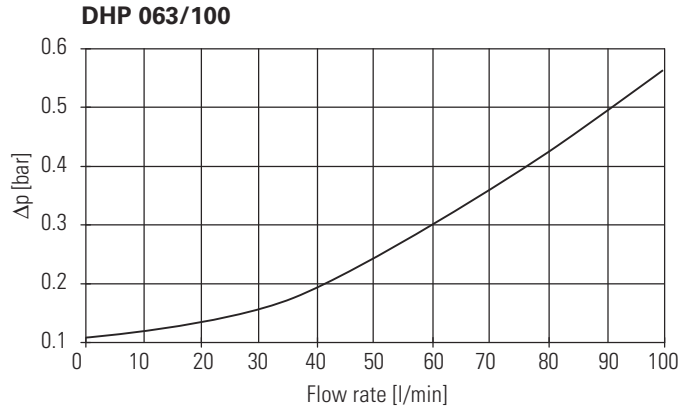
DHP 063, 100 Series Housing Data

Filter Housing Flow Data

Flow versus pressure drop:

32 cSt oil with specific gravity of ≤ 0.9
(See page 5 for specific gravity corrections for pressure drop.)

TYPE	PORT SIZE	B1	B2	D1	H1	H2
DHP 063	G 3/4	150	–	–	146	215
DHP 100	G 1	–	96	50	236	305



DHP 250, 400 Series Housing Data

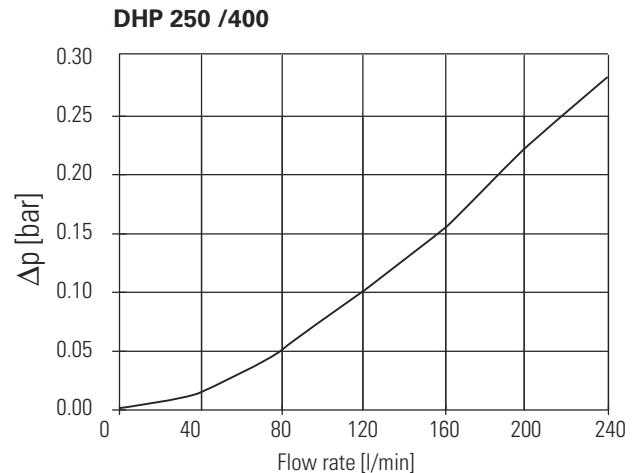
Filter Housing Flow Data

Flow versus pressure drop:

32 cSt oil with specific gravity of ≤ 0.9
(See page 5 for specific gravity corrections for pressure drop.)

TYPE	PORT SIZE	B1	H1	H2
DFN 250	G 1 1/2	167	229	330
DFN 400	DN 38*	158	379	480

* Flange SAE 1 1/2", 3000 PSI (210 bar)

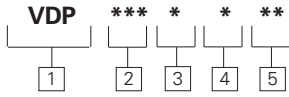


Pressure Filters

DHP DIN Series Filters

Element Model Code

(For use in DHP, DMP, and DLR Series Housings)



1 Filter Element

VDP - DIN Standard Element

2 Nominal Size

063 - 63L/min (16.6USgpm)
100 - 100L/min (26.4USgpm)
250 - 250L/min (66.0USgpm)
400 - 400L/min (105.7USgpm)

3 Seal Material

B - Buna-N
V - Viton-A
 Viton is a registered trademark of E.I. DuPont

4 Element Construction

C - Standard Construction
H - High Collapse Construction

5 Media Grade

03 16/14/12 or better
06 18/16/14 or better
10 20/18/15 or better
25 22/19/16 or better

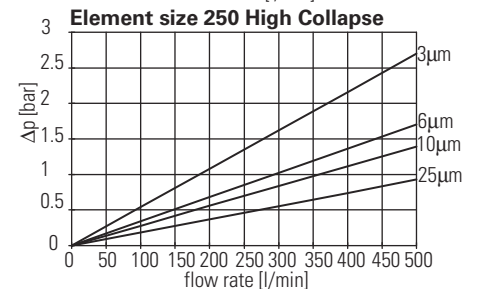
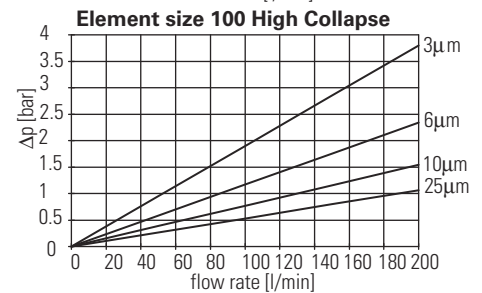
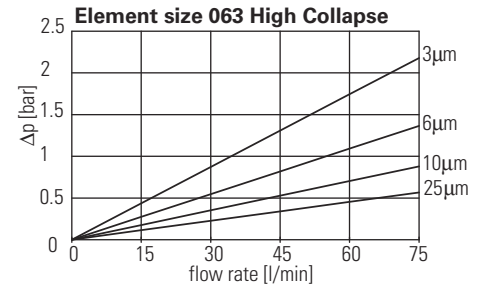
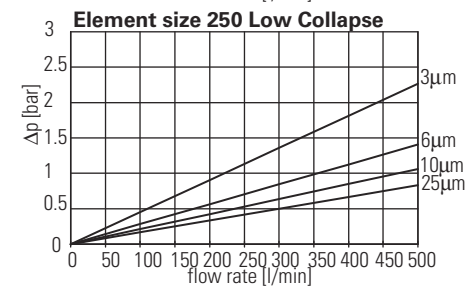
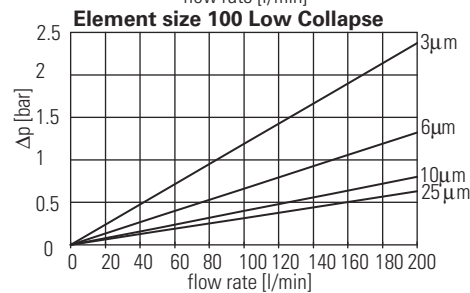
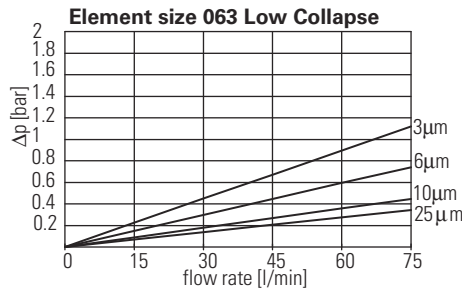
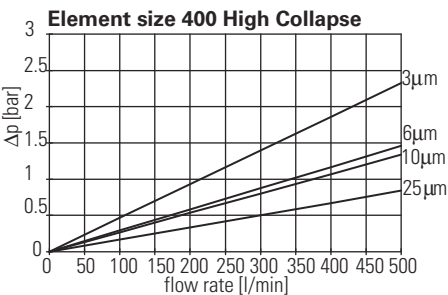
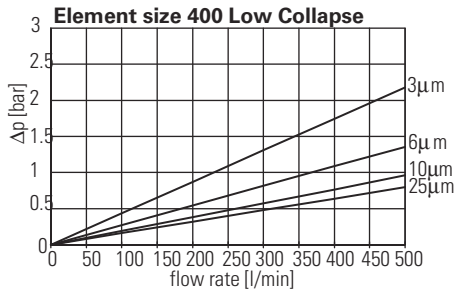
Sample model code:

VDP063BC06

VDP Series Element Flow Data

Flow versus pressure drop: 32 cSt oil with specific gravity of ≤ 0.9

(See page 6 for viscosity corrections for pressure drop.)



Sample ΔP Calculation :

DHP1100BC4ANBC06 - Filter assembly having filter element with micron rating code '06' at 70 L/min flow rate using a hydraulic fluid at 46 cSt viscosity & specific gravity (sp.gr.)0.8.

ΔP Assembly	=	ΔP Housing	+	ΔP Element
	=	Housing ΔP from graph x sp.gr.(actual)/0.9	+	Element ΔP valve from from graph(bar/lpm) x [actual cSt / 32] x [Sp.Gr(actual) / 0.9]
	=	0.35 x 0.8/0.9	+	0.4 x 46/32 x 0.8/0.9
	=	0.310	+	0.51
	=	0.82 bar		