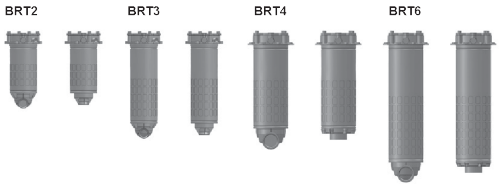
Return Line Filter BRT

Model No. of filter in photograph is BRT6RBZ102.

Features and Benefits

- Filter is mounted in the tank and flow comes to it from a pipe connection below it or from the side
- Optimal flow conditions created by flow from beneath guaranteeing optimal air separation, even tank mixing, and long element service intervals
- Patented de-aeration windows around the housing offer superior air bubble coalescence in a 360 degree discharge
- Quality Protected Inside-Out Flow Element Design

Part of the Schroeder Industries Energy Sustainability Initiative



to 160 gpm
to 600 L/min
to 145 psi
to 10 bar

Filter Housing Specifications

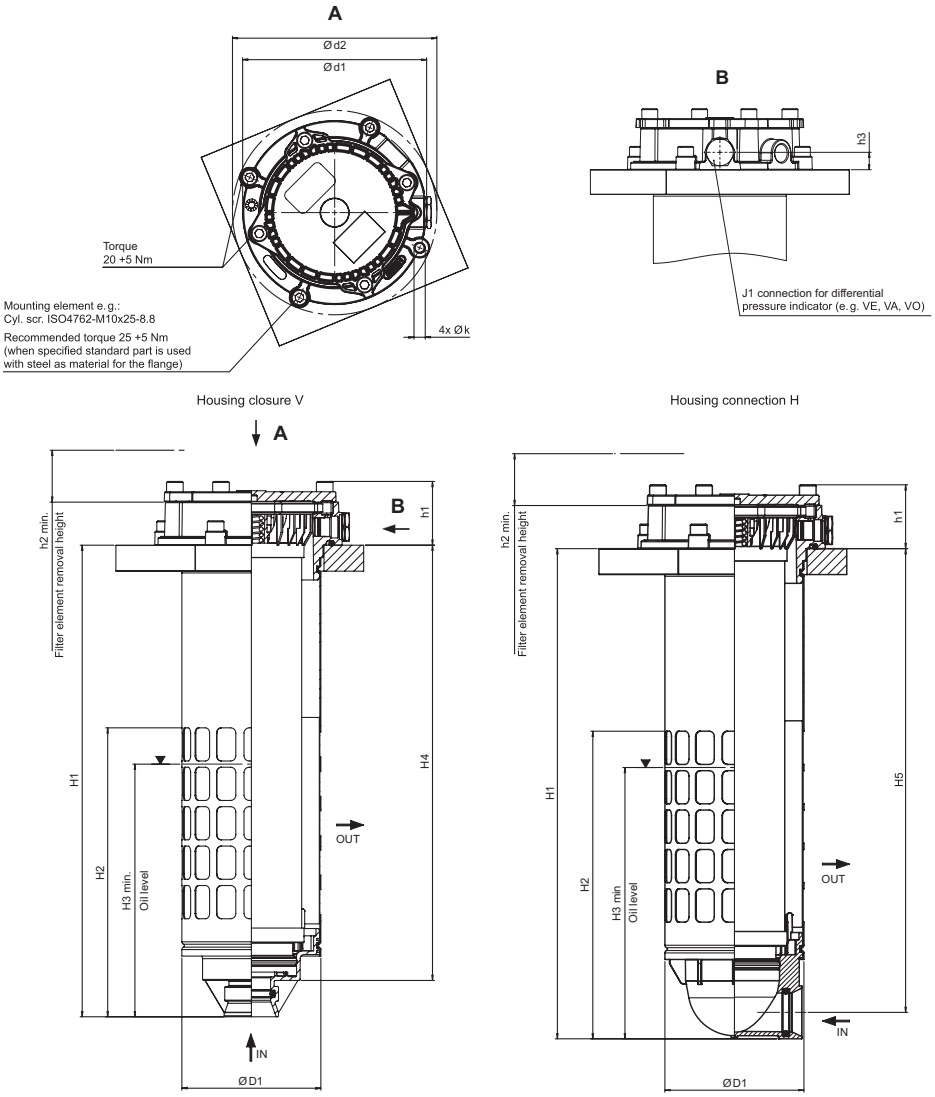
Flow Rating:	Up to 160 gpm (600 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	145 psi (10 bar)
Temp. Range:	-22°F to 248°F (-30°C to 120°C)
Bypass Setting:	Cracking: 36 psi (2.5 bar)
Filter Head & Cover: Inlet Section:	BRT 2 - 6: Aluminum Nylon (PA66)
Seals	Buna N
Installation:	As in-tank filter

Fluid Compatibility

Type Fluid	Appropriate Schroeder Media
Hydraulic Oils	Schroeder Z-Media® (synthetic)
Lubrication Oils	Schroeder Z-Media® (synthetic)
Compressor Oils	Schroeder Z-Media® (synthetic)
Biodegradable Operating Fluids	Schroeder Z-Media® (synthetic)

BRT Return Line Filter

Dimensions BRT2 - BRT3



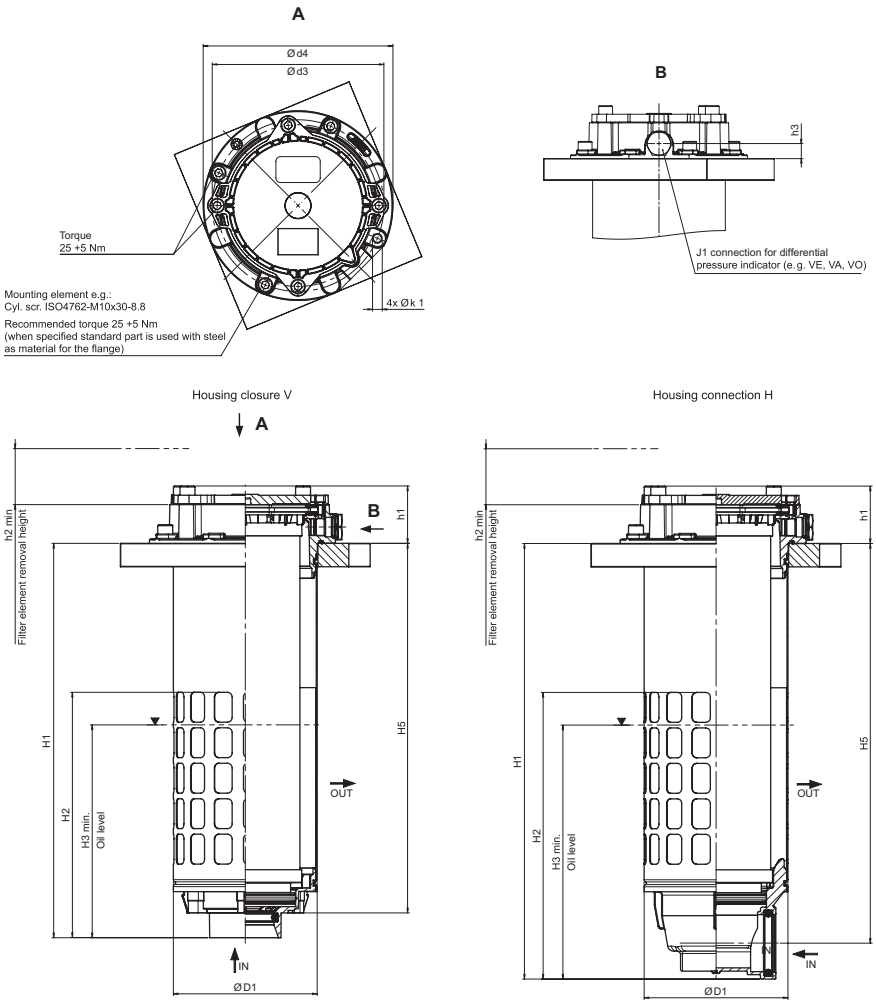
Type	Design	Connection pos.	H1	H2	H3	H4	H5	h1	h2	h3	ØD1	Ød1	Ød2	Øk	Weight [kg]
RFB 0170	Diffuser with opening	H	322.5	220.5	186	–	297	61.5	300	17.5	134	180	200	10.5	3.3
	Diffuser with opening	V	304.5	202.5	168	269.5	–								3.2
RFB 0300	Diffuser with opening	H	472.5	296.5	262	–	447		450						3.9
	Diffuser with opening	V	454.5	278.5	244	419.5	–								4.0

Element Performance Information

Element	Filtration Ratio Per ISO 4572/NFPA T3.10.8.8 Using automated particle counter (APC) calibrated per ISO 4402 $ß_x \geq 75$	$ß_x \geq 100$	$ß_x \geq 200$	Filtration Ratio per ISO 16889 Using APC calibrated per ISO 11171 $ß_x(c) \geq 200$	$ß_x(c) \geq 1000$
2RBZ10	C/F	C/F	C/F	C/F	11.2
2RBZ25	C/F	C/F	C/F	C/F	16.2
3RBZ10	C/F	C/F	C/F	C/F	11.2
3RBZ25	C/F	C/F	C/F	C/F	16.2
4RBZ10	C/F	C/F	C/F	C/F	11.2
4RBZ25	C/F	C/F	C/F	C/F	16.2
6RBZ10	C/F	C/F	C/F	C/F	11.2
6RBZ25	C/F	C/F	C/F	C/F	16.2

Metric dimensions mm ( ).

Dimensions
BRT4 - BRT6



Type	Design	Connection pos.	H1	H2	H3	H4	H5	h1	h2	h3	ØD1	Ød1	Ød2	Øk1	Weight [kg]
RFB 0400	Diffuser with opening	H	466.5	307	234	–	428	61.5	430	17.5	154	185.7	205	10.5	4.5
	Diffuser with opening	V	422.4	262.6	182	393.8	–								4.3
RFB 0600	Diffuser with opening	H	613.7	383.2	310	–	575.2		580						5.5
	Diffuser with opening	V	561.6	331.1	258	541	–								5.3

Element
Dirt Holding
Capacity & Burst Rating

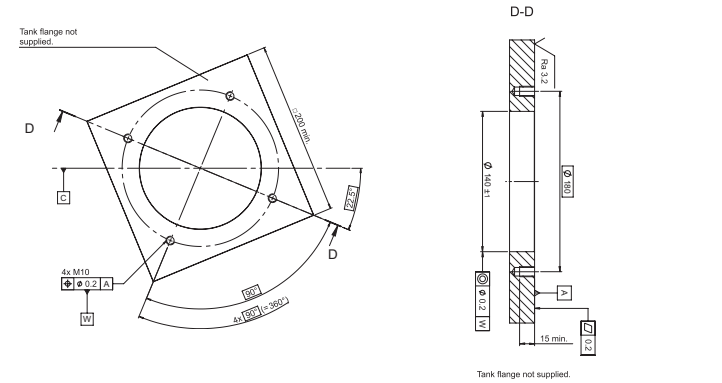
Element	DHC (g)	Element	DHC (g)
2RBZ10	70.4	4RBZ10	152.5
2RBZ25	77.8	4RBZ25	173.4
3RBZ10	114.3	6RBZ10	190.4
3RBZ25	128.3	6RBZ25	231.7

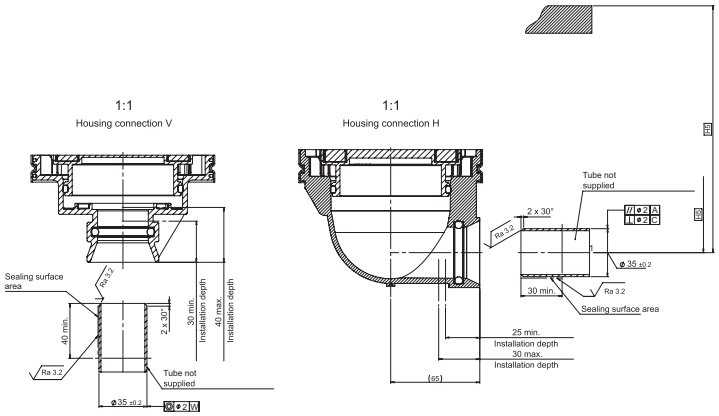
Element Burst Rating: 87 psi (6 bar) for standard elements
Flow Direction: Inside Out

Metric dimensions mm ( ).

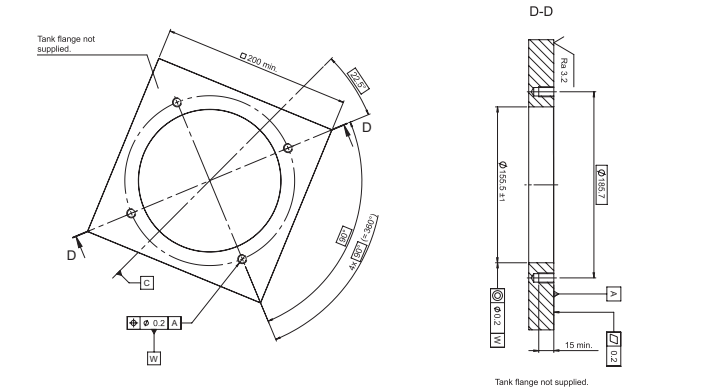
BRT Return Line Filter

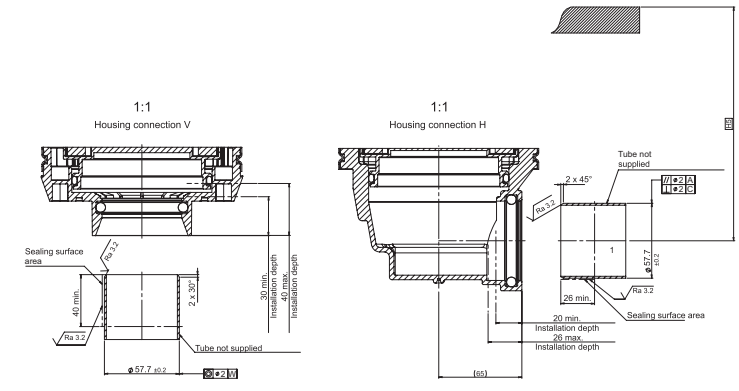
Dimensions BRT2 - BRT3





Dimensions BRT4 - BRT6

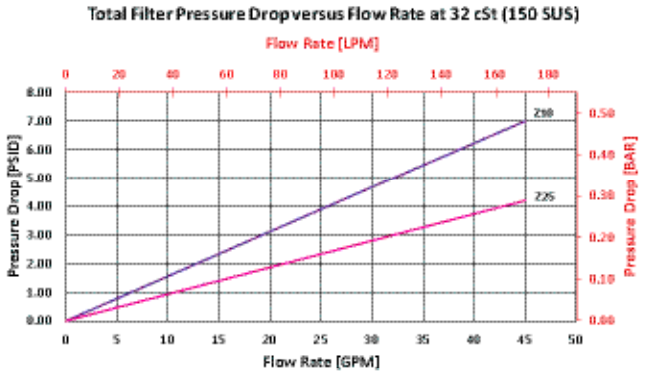




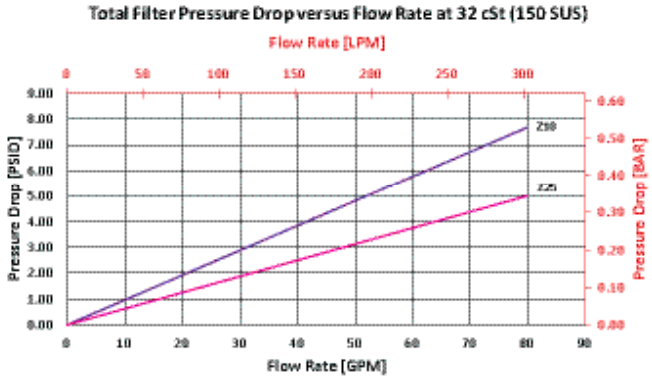
Metric dimensions mm ( ).

$\Delta P_{element}$

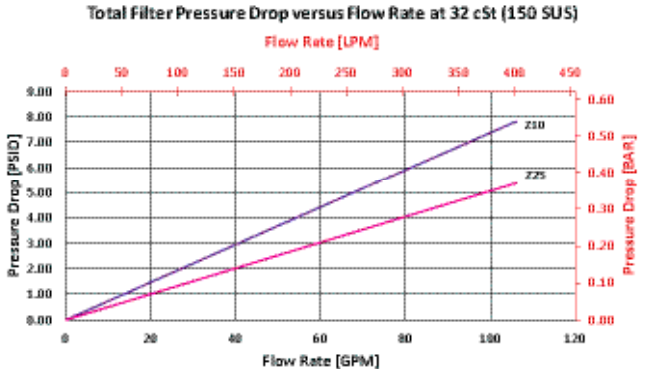
BRT2



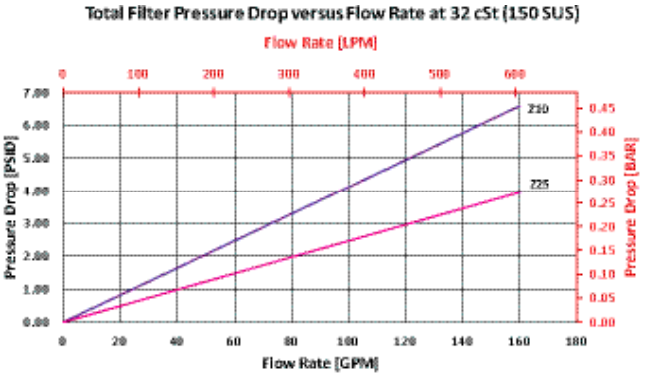
BRT3



BRT4



BRT6



Pressure Drop Information

Based on Flow Rate and Viscosity

BRT Return Line Filter

Filter Model Number Selection

How to Build a Valid Model Number for a Schroeder BRT:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7
BRT						

Example: NOTE: One option per box

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	
BRT	3RB	Z	10		1		= BRT3RBZ101Y2

BOX 1

Filter Series
BRT

BOX 2

Size of Element
2RB
3RB
4RB
6RB

BOX 3

Element Media Type
Z = Excellement® Z-Media® (synthetic)

BOX 4

Micron Rating
10 = 10 µm
25 = 25 µm

BOX 5

Seal Material
Omit = Buna N
V = Viton®

BOX 6

Inlet Porting
2 = side inlet
1 = bottom inlet

BOX 7

Dirt Alarm® Options	
Omit = No Indicator, sealed up w/ screw plug	
Clogging Indicators	VA = visual/electrical
	VE = electrical
	VO = visual