

Return Line Filter

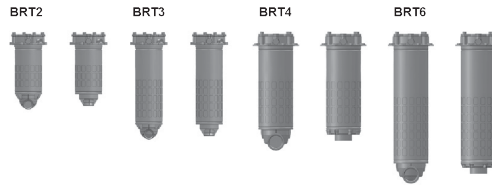
BRT



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 2030 Initiative



Model No. of filter in photograph is BRT6RBZ102.

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

- IRF
- TF1
- KF3
- KL3
- LF1
- MLF1
- RLD
- GRTB
- MTA
- MTB
- ZT
- KFT
- RT
- RTI
- LRT
- ART
- BRT**
- TRT
- BFT
- QT
- KTK
- LTK
- MRT
- PAF1
- MAF1
- MF2

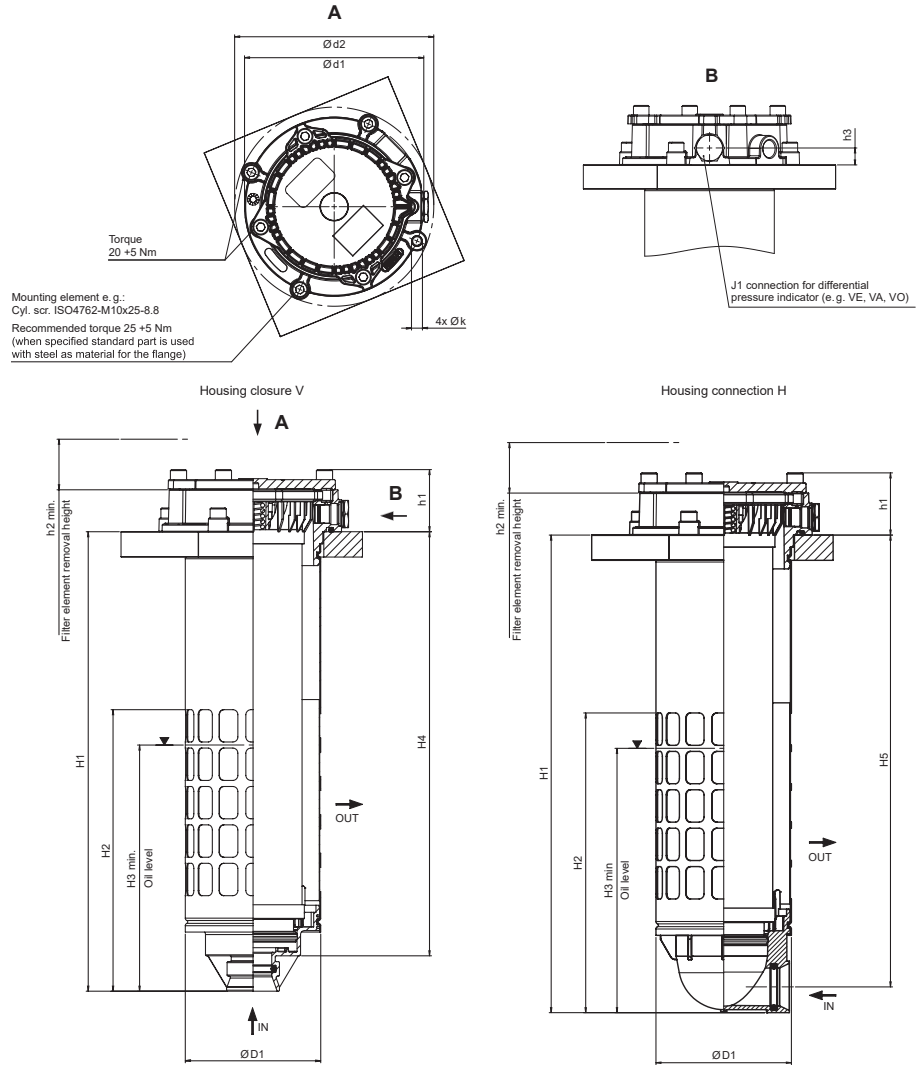
Flow Rating:	Up to 160 gpm (600 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	145 psi (10 bar)
Temp. Range:	-22°F to 248°F (-30°C to 120°C)
Bypass Setting:	Cracking: 36 psi (2.5 bar)
Filter Head & Cover:	BRT 2 - 6: Aluminum
Inlet Section:	Nylon (PA66)
Seals	Buna N
Installation:	As in-tank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

Filter Housing Specifications

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)

Fluid Compatibility Accessories For Tank-Mounted Filters

Dimensions BRT2 - BRT3

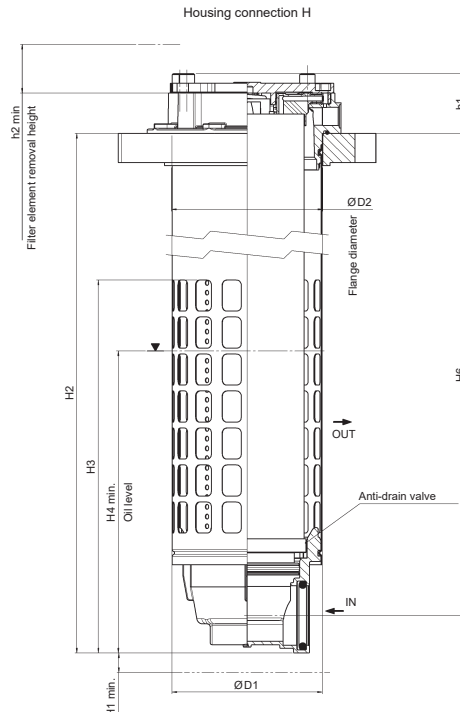
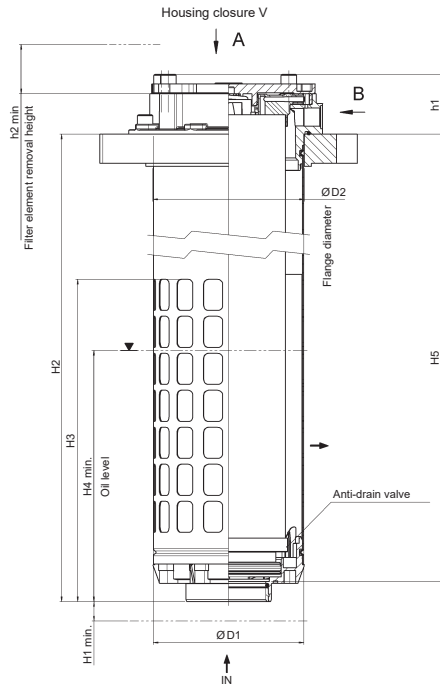
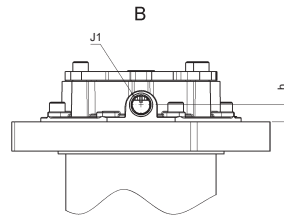
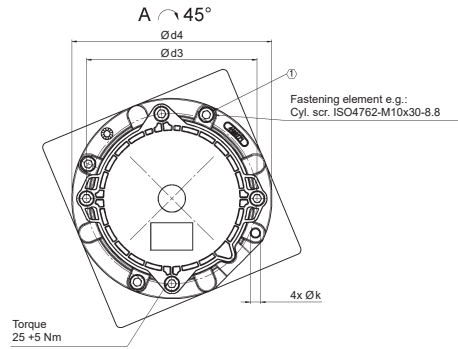


Type	Design	Connection pos.	H1	H2	H3	H4	H5	h1	h2	h3	$\varnothing D1$	$\varnothing d1$	$\varnothing d2$	$\varnothing k$	Weight [lbs]
BRT2	Diffuser with opening	H	12.7	8.68	7.32	-	11.69	2.42	11.81	0.69	5.28	7.09	7.87	0.41	7.3
	Diffuser with opening	V	11.99	7.97	6.61	10.61	-								7.1
BRT3	Diffuser with opening	H	18.6	11.67	10.31	-	17.6	17.72							8.6
	Diffuser with opening	V	17.89	10.96	9.61	16.52	-								8.8

Element Performance Information

Element	Filtration Ratio Per ISO 4572/NFPA T3.10.8.8 Using automated particle counter (APC) calibrated per ISO 4402			Filtration Ratio per ISO 16889 Using APC calibrated per ISO 11171	
	$\beta_x \geq 75$	$\beta_x \geq 100$	$\beta_x \geq 200$	$\beta_x(c) \geq 200$	$\beta_x(c) \geq 1000$
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

Dimensions BRT4 - BRT6



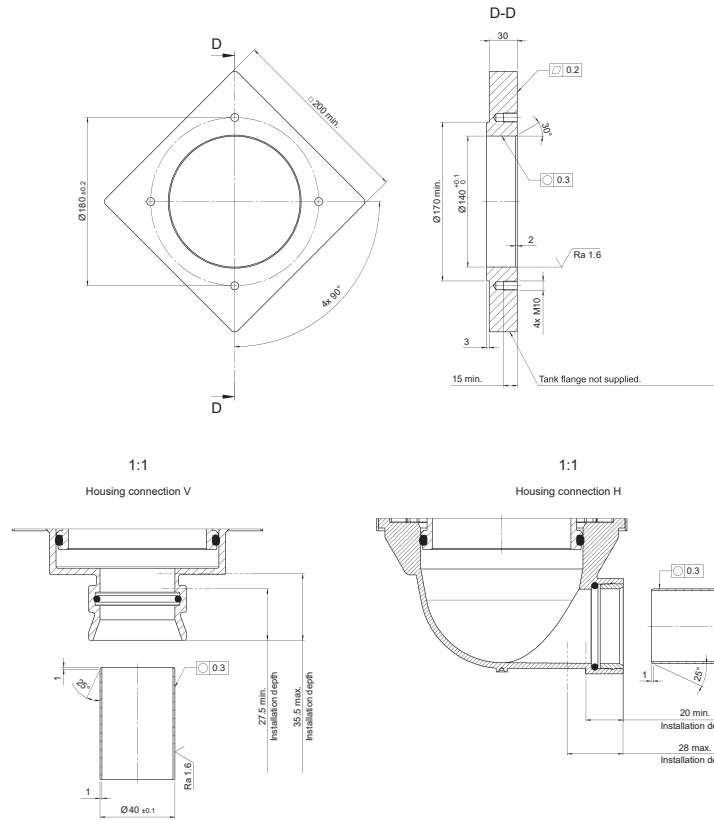
Type	Design	Connection position	H1	H2	H3	H4	H5	H6	h	h1	h2	$\varnothing D1$	$\varnothing D2$	$\varnothing k$	Weight [lbs]
BRT4	Diffuser with opening	H	10	18.37	12.09	9.21	-	16.85	0.69	2.42	16.9	6.06	8.07	0.41	9.9
	Diffuser with opening	V	10	16.63	10.34	7.17	15.5	9.5							
BRT6	Diffuser with opening	H	10	24.16	15.09	12.2	-	22.65	0.69	2.42	16.9	6.06	8.07	0.41	12.1
	Diffuser with opening	V	10	22.11	13.04	10.16	21.3	11.7							

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

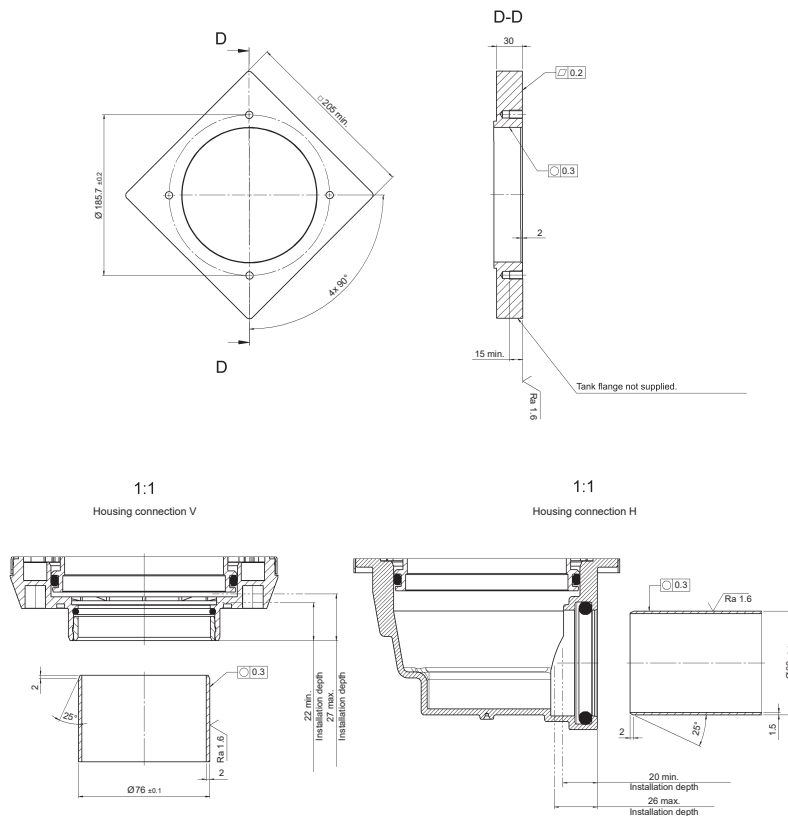
Element Burst Rating: 87 psi (6 bar) for standard elements
Flow Direction: Inside Out

Element
Dirt Holding
Capacity & Burst
Rating

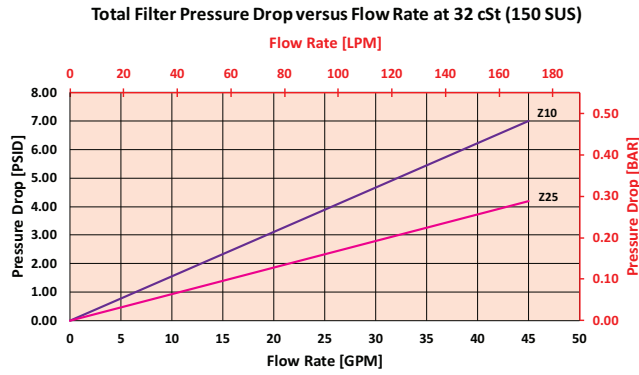
Dimensions BRT2 - BRT3



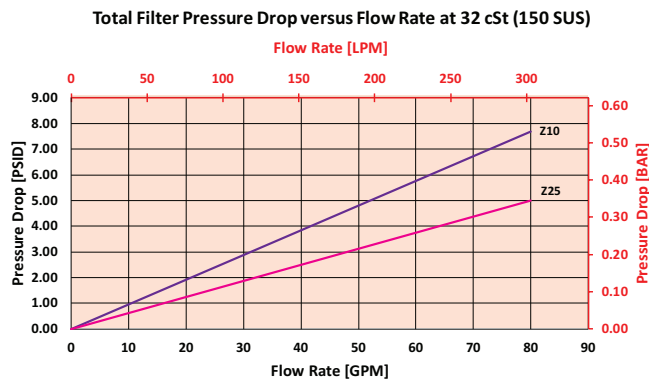
Dimensions BRT4 - BRT6



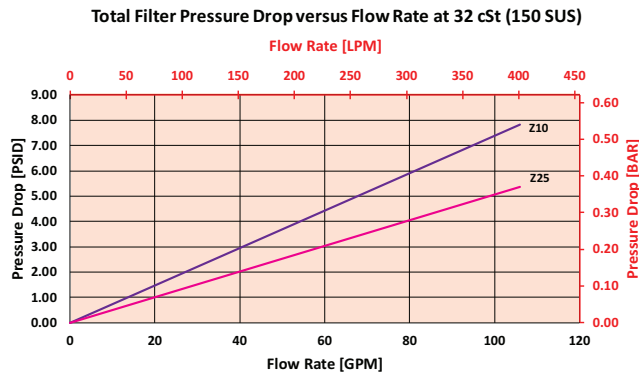
$\Delta P_{\text{element}}$
BRT2



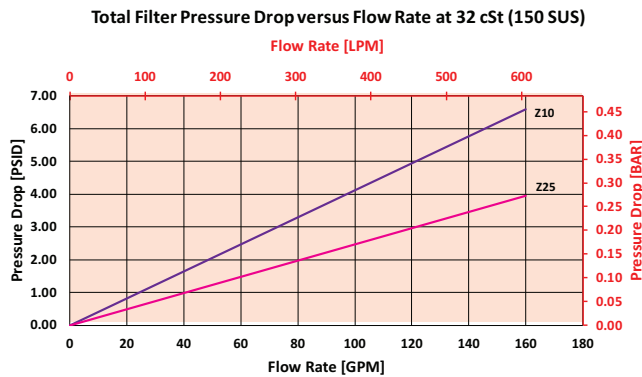
BRT3



BRT4



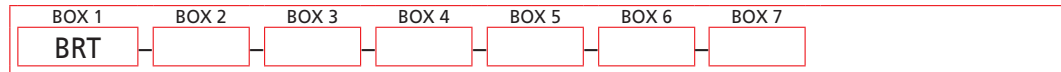
BRT6



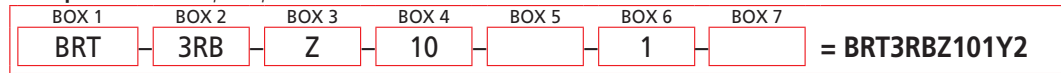
Pressure Drop Information
Based on
Flow Rate
and Viscosity

Filter Model Number Selection

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



Example: NOTE: One option per box



BOX 1	BOX 2	BOX 3	BOX 4
Filter Series	Size of Element	Element Media Type	Micron Rating
BRT	2RB	Z = Excellement® Z-Media® (synthetic)	10 = 10 µm
	3RB		25 = 25 µm
	4RB		
	6RB		

BOX 5	BOX 6	BOX 7
Seal Material	Inlet Porting	Dirt Alarm® Options
Omit = Buna N	2 = side inlet	Omit = No Indicator, sealed up w/ screw plug
V = Viton®	1 = bottom inlet	VA = visual/electrical
		VE = electrical
		VO = visual