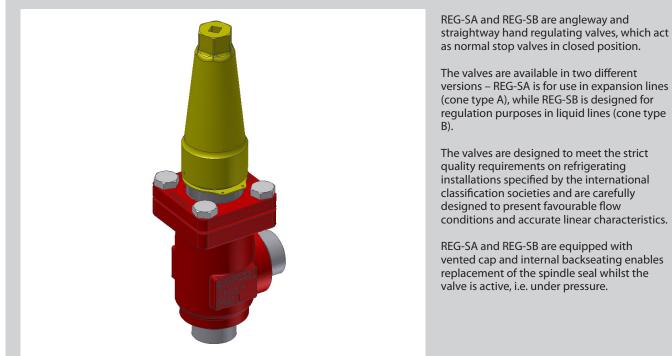


Technical brochure

Regulating valves REG-SA and REG-SB



Features

Housing is Standard SVL angleway or straightway housing allowing other inserts from the SVL platform to be installed.

Applicable to all common non-flammable refrigerants and all non-corrosive gases/ liquids.

Can be used in chemical and petro-chemical applications.

- Designed to ensure perfect regulation
- Internal backseating enables replacement of the spindle seal whilst the valve is active, i.e. under pressure.
- Easy to disassemble for inspection and possible repair.
- Max. operating pressure: 52 bar g (754 psi g)
- Temperature range: -60/+150°C (-76/+302°F)
- Acts as a normal stop valve in closed position.

conditions and accurate linear characteristics.

vented cap and internal backseating enables

- Housing and bonnet material is low temperature steel according to requirements of the Pressure Equipment Directive and other international classification authorities.
- Exact capacity and setting of the valve can be calculated for all refrigerants by means of "DIRcalc[™]" (Danfoss Industrial Refrigeration calculation programme).
- Classification: To get an updated list of certification on the products please contact your local Danfoss Sales Company.



Design

Housing

Housing is Standard SVA angleway or straightway housing allowing other inserts from the SVL platform to be installed. Material is special, cold resistant steel

Connections

Available with the following connections:

- Butt-weld DIN (EN 10220)
 DN 10 65 (³/₈ 2¹/₂ in.)
- Butt-weld ANSI (B 36.10 Schedule 80)
 DN 10 40 (³/₈ 1¹/₂ in.)
- Butt-weld ANSI (B 36.10 Schedule 40)
 DN 50 65 (2 2¹/₂ in.)
- Socket weld (ANSI B 16.11)
 DN 15 40 (½ 1½ in.)
- FPT inside pipe thread, NPT (ANSI/ASME B 1.20.1)
 - DN 15 32 (½ 1¼ in.)

The cone

The valves are available in two different versions – REG-SA with an A cone and REG-SB with a B cone. The A cone is designed for expansion lines, while the B cone is designed for regulating purposes e.g. liquid lines.

The valve cone is designed to ensure perfect regulation and provide an extensive regulating area. Irrespective of the refrigerant used, it is easy to obtain the correct capacity. A cone seal ring provides perfect sealing at a minimum closing momentum.

The valve cone can be turned on the spindle, thus there will be no friction between the cone and the seat when the valve is opened and closed.

Spindle

The spindle is made of polished stainless steel, which is ideal for O-ring sealing.

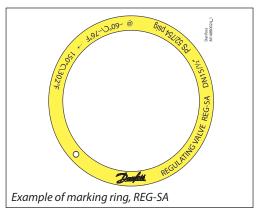
Packing gland - REG-SA and REG-SB The "full temperature range" packing gland ensures perfect tightness in the whole range: -60/+150°C (-76/+302°F). The packing glands are equipped with a scraper ring to prevent penetration of dirt and ice.

Installation

Install the valve with the spindle up or in horizontal position. The flow must be directed towards the cone.

The valve is designed to withstand high internal pressure. However, the piping system in general should be designed to avoid liquid traps and reduce the risk of hydraulic pressure caused by thermal expansion.

For further information refer to product instruction for REG-SA and REG-SB.



Pressure Equipment Directive (PED) REG valves are approved according to the European standard specified in the Pressure Equipment Directive and are CE marked.

(6

REG-SA and REG-SB valves											
Nominal bore	DN = < 25 mm (1 in.) DN32-80 mm (1¼ - 3 in.) DN100 - 125 mm (4 - 5 in.)										
Classified for		Fluid group I									
Category Article 3, paragraph 3		II									

Technical data

Refrigerants

Applicable to all common non-flammable refrigerants and all non-corrosive gases/ liquids.

Can be used in chemical and petro-chemical applications.

■ *Temperature range* -60/+150°C (-76/+302°F)

- Max working pressure
 52 bar g (754 psi g)
- Flow coefficients Flow coefficients for fully opened valves from $k_v = 0.15$ to 80 m³/h (C_v = 0.17 to 92.5 USgal/min).



Computation and selection

Introduction

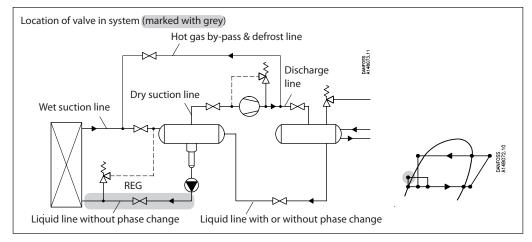
In refrigeration plants, regulating valves are primarily used in liquid lines in order to regulate the flow of refrigerant. The valves can, however, also be used as expansion valves. From a calculation point of view the two fields of application are very different.

Normal flow is the term used to describe the general case where the flow through the valve is proportional to the square root of the pressure drop across it and inversely proportional to the density of the refrigerant (Bernouillis equation).

This relationship between mass flow, pressure drop and density satisfies the majority of all valve applications with refrigerants and brines.

Normal flow is characterised by turbulent flow through the valve without any phase change. The following capacity curves are based on the above mentioned assumption.

Application of the regulating valves outside the normal flow area will reduce the capacity of the valve considerably. In such cases it is recommended to use "DIRcalc[™]" (Danfoss Industrial Refrigeration calculation programme).



Sizing regulating valve for liquid flow Liquid refrigerants: Use the liquid tables, fig. 6 - 10. For other refrigerants and brines, "Normal flow" (Turbulent flow); see below and use the flow coefficient tables (fig. 1 - 5).

SI-units

Mass flow:

$$k_v = \frac{G}{\sqrt{\rho \times 1000 \times \Delta p}} = G \times C_A [m^3/h]$$

Volume flow:

$$k_{v} = \frac{\dot{V}}{\sqrt{\frac{1000 \times \Delta p}{\rho}}} \left[m^{3} / h \right]$$

k _v	[m³/h]	Quantity [m ³ /h] of water flowing through a valve at a pressure loss of 1 bar (according to VDE/VDI Norm 2173).
P_1	[bar]	Pressure before the valve
		(upstream).
P_2	[bar]	Pressure after the valve
		(downstream).
Δр	[bar]	Actual pressure loss across the
		valve $(P_1 - P_2)$.
G	[kg/h]	Mass flow through the valve.
ý	[m³/h]	Volume flow through the valve.
ρ	[kg/m ³]	Density of the refrigerant before
	- 5 -	the valve.
C		
CA		Calculation factor (fig. 11).

Imperial units

Mass flow:

$$C_{v} = \frac{0.95 \times G}{\sqrt{\rho \times \Delta p}} = 31.6 \times G \times C_{A} [USgal/min.]$$

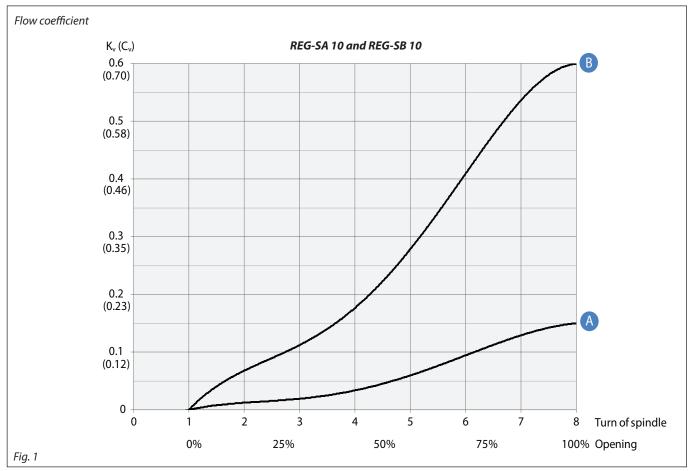
Volume flow:

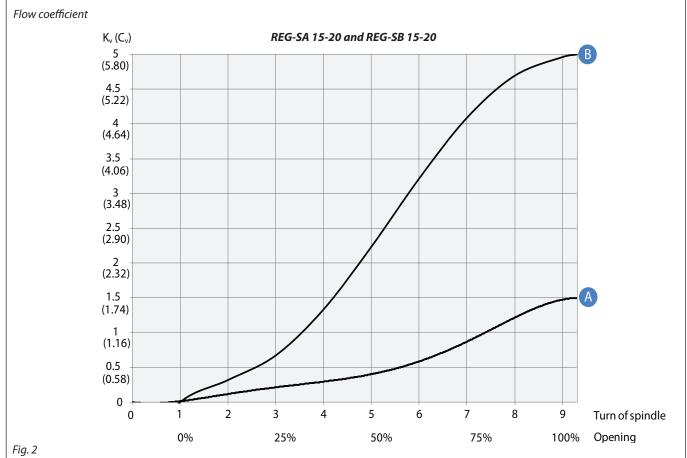
$$E_v = \frac{0.127 \times V}{\sqrt{\frac{\Delta p}{\rho}}}$$
 [USgal/min.]

Cv	[US gal/min]	Quantity [US gal/min] of water flowing through a valve at a pressure loss of 1 psi.
P_1	[psi]	Pressure before the valve (upstream).
P ₂	[psi]	Pressure after the valve (downstream).
∆р	[psi]	Actual pressure loss across the valve (P_1-P_2) .
G	[lb/min]	Mass flow through the valve.
V	[US gal/min]	Volume flow through the valve.
ρ	[lb/ft³]	Density of the refrigerant before the valve
C_A		Calculation factor (fig. 11).



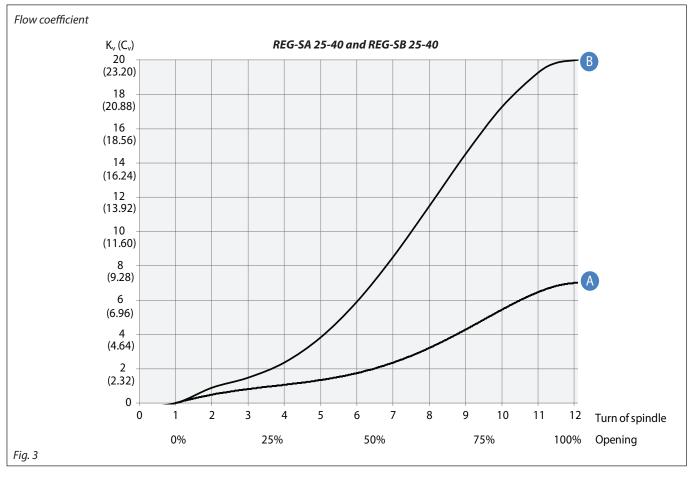
Computation and selection

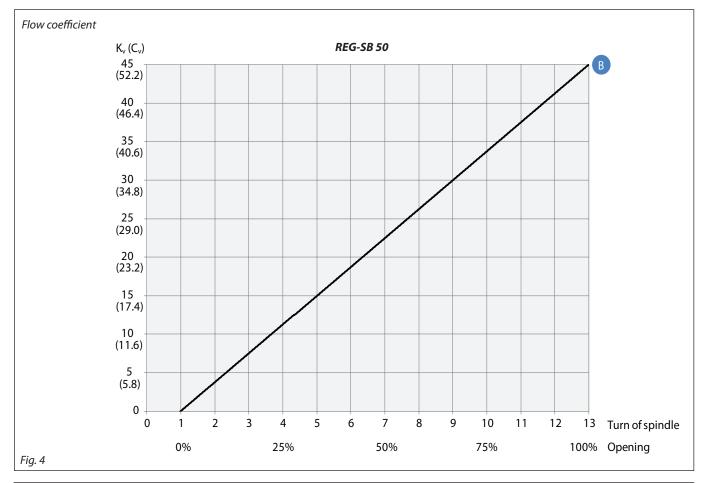




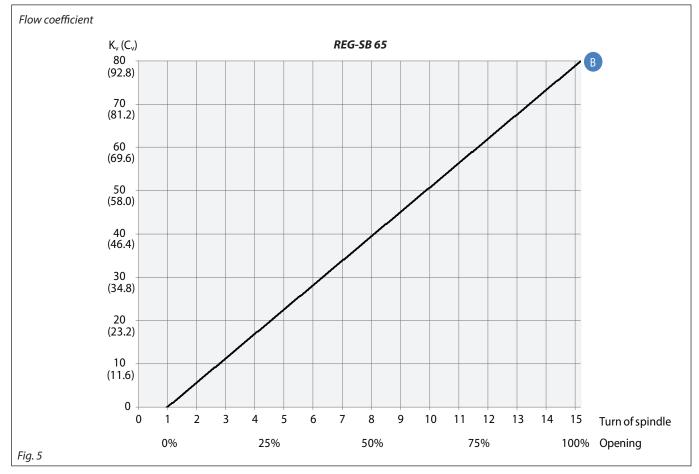
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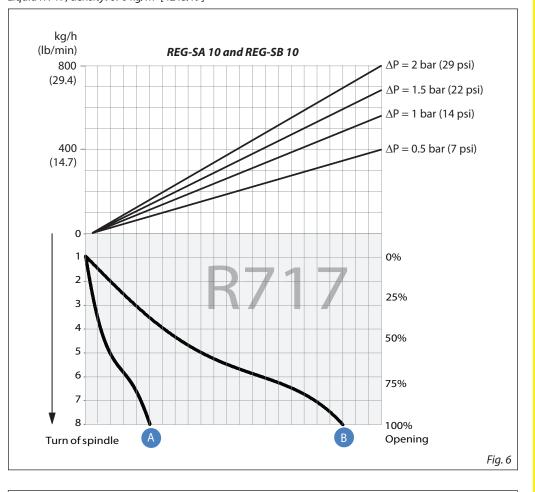


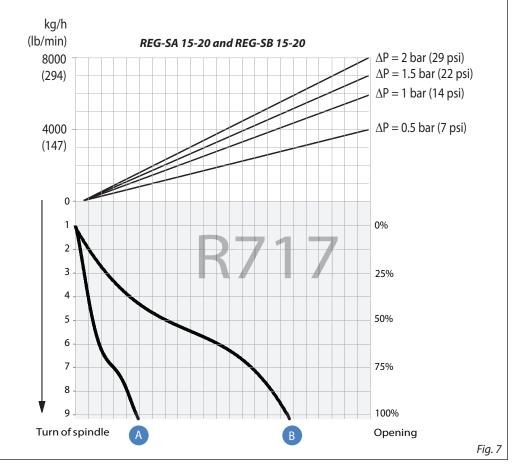




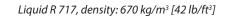


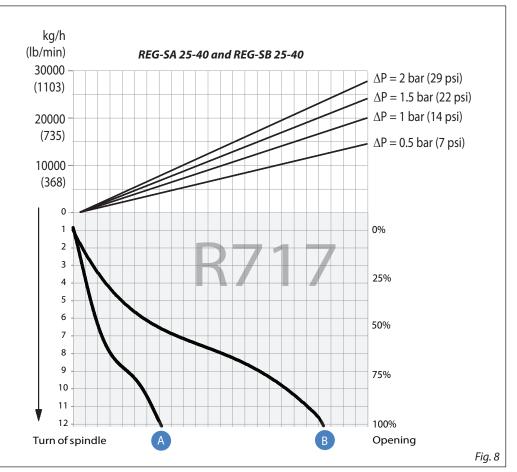
Liquid R 717, density: 670 kg/m³ [42 lb/ft³]

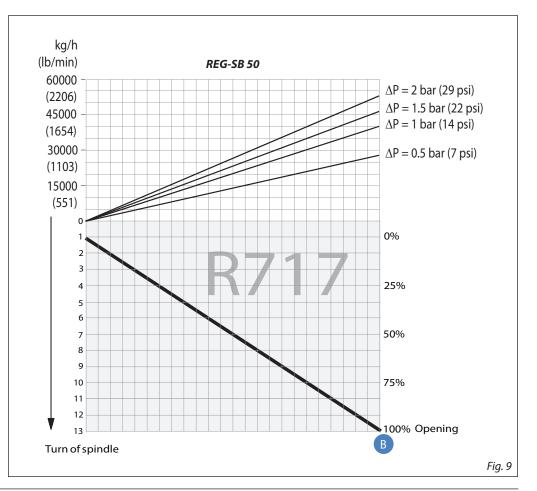




For choice of valve size and connection see "Connections".



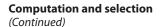




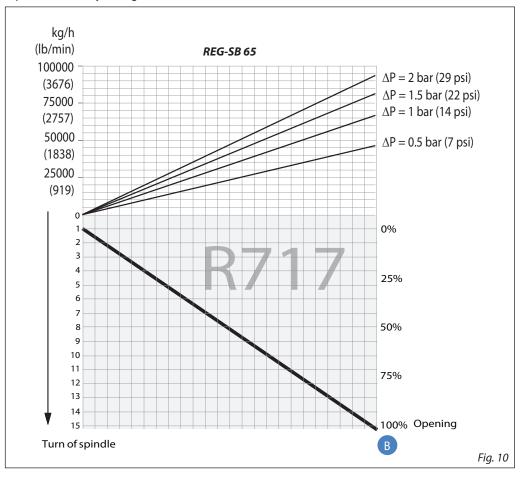
For choice of valve size and connection see "Connections".



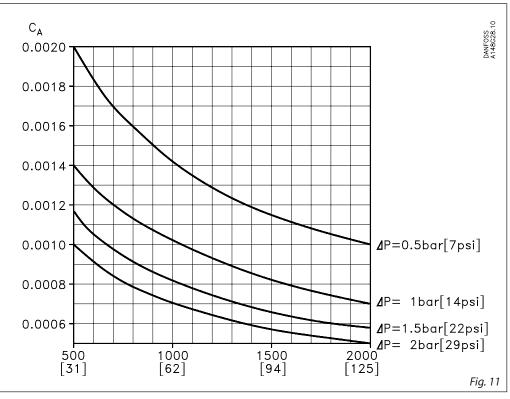




Liquid R 717, density: 670 kg/m³ [42 lb/ft³]



Calculation factor CA



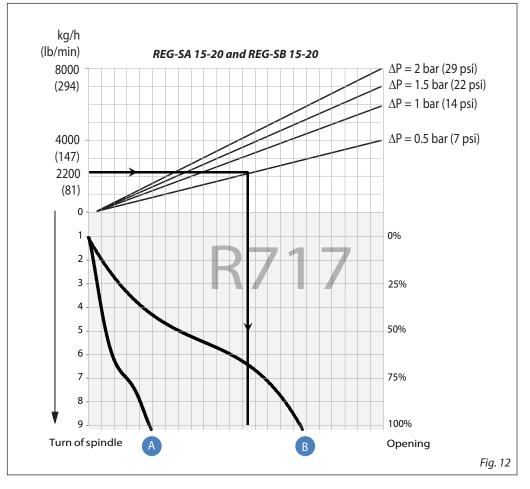
For choice of valve size and connection see "Connections".



Computation and selection *Example 1.* $\begin{array}{ll} \mbox{Refrigerant:} & \mbox{R 717} \\ \mbox{Refrigerant flow:} & 2200 \mbox{ kg/h} \\ \mbox{Pressure drop:} & \ensure \Delta p = 0.5 \mbox{ bar} \end{array}$

The above mentioned example is illustrated on the following flow rate diagram and shows that REG-SB 15 and 20 with cone B can be used. The main rule is that nominal regulation range should be below 85% opening degree. If the arrowline is crossing 2 cone curves, the smaller cone should be selected if opening degree < 85%. The example is only correct if the density of the refrigerant is approx. 670 (kg/m³), and there must be no build-up of flash gas in the valve.





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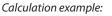
Computation and selection Example 2.

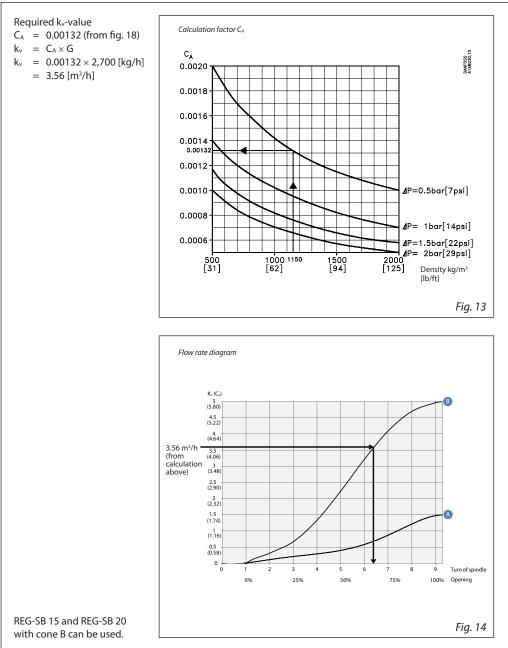
Brine, density 1150 [kg/m³] ρ: Brine flow 2,700 [kg/h] G: Pressure drop ∆p: 0.5

In this example it is not possible to use the selection diagrams (fig. 6 - 10) as the refrigerant in question is not included.

[bar]

Use the curves of the k_v -values instead (fig. 1 - 5) and calculate the required k_v by means of the formulas in the "Introduction" passage at the beginning of this chapter. Alternatively calculate the ky-values by means of the calculation factor C_A (fig. 13) and the flow rate diagram (in this example: fig. 14) as per the following calculation example.

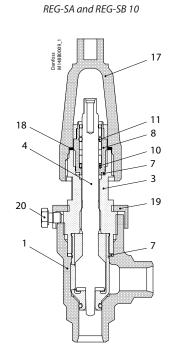


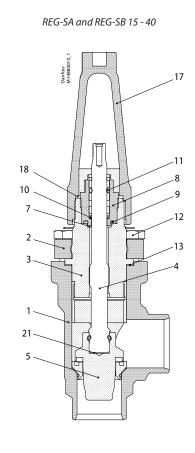


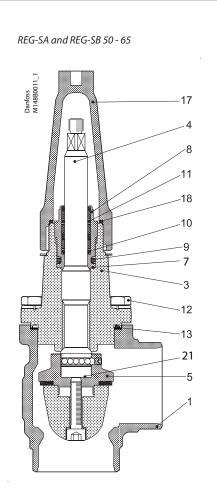




Material specification







No.	Part	Material	EN	ISO	ASTM
1	Housing	Steel	P285QH EN10222-4		LF2A350
2	DN 10 - 40 (³/ଃ - 1½ in.) – Bonnet, Flange	Steel	P275 NLI EN10028-3		
3	DN 10 - 40 (¼ - 1½ in.) – Bonnet, Insert DN 50 - 65 (2 - 2½ in.) – Bonnet, Flange	Steel	P285QH EN10222-4		
4	Spindle DN 10 - 40 (¼ - 1½ in.) DN 50 - 65 (2 - 2½ in.)	Stainless steel Stainless steel	X10CrNiS18-9, 17440 X8CrNiS18-9, 17440	Type 17, 683/13 Type 17, 683/13	AISI 303 AISI 303
5	Cone	Steel			
7	Packing washer	Aluminium			
8	Packing gland	Steel			
9	O-ring	Cloroprene (Neoprene)			
10	Spring loaded Teflon ring	PTFE			
11	O-ring	Cloroprene (Neoprene)			
12	Bolts	Stainless steel	A2-70	A2-70	Type 308
13	Gasket	Fiber, non asbestos			
14	Bottom insert	Steel			
17	Seal cap	Aluminium			
18	Gasket f. seal cap	Nylon			
19	Locking nut	Steel			
20	Screw	Steel			
21	Disk spring	Steel			



Connections



	¥		W
4	4	****	R
- 00	⊢	 \rightarrow	R
			R
			R
			R

	Size	Size	OD	Т	OD	Т	Cone
	mm	in.	mm	mm	in.	in.	Cone
Welding DIN	(EN 102.	20)					
REG-SA / SB	10	3/8	17.2	2.3	0.677	0.091	A and B
REG-SA / SB	15	1/2	21.3	2.3	0.839	0.091	A and B
REG-SA / SB	20	3/4	26.9	2.3	1.059	0.091	Aand b
	25	1	33.7	2.6	1.327	0.103	
REG-SA / SB	32	1 ¹ / ₄	42.4	2.6	1.669	0.102	A and B
	40	1 ¹ / ₂	48.3	2.6	1.902	0.103	
REG-SB	50	2	60.3	2.9	2.37	0.11	В
REG-SB	65	2 ¹ / ₂	76.1	2.9	3	0.11	В

Т

OD T

Size Size

OD

ANSI

QO

	Welding ANS	I (B 36.10) Schedi	ıle 80)				
	REG-SA / SB	10	3/8	17.2	3.2	0.677	0.126	A and B
-	REG-SA / SB	15 2	1/2 3/4	21.3 26.9	3.7 4.0	0.839 1.059	0.146 0.158	A and B
	REG-SA / SB	25 32 40	1 1 ¹ / ₄ 1 ¹ / ₂	33.7 42.4 48.3	4.6 4.9 5.1	1.327 1.669 1.902	0.181 0.193 0.201	A and B
	Welding ANS	I (B 36.1) Schedi	ule 40)				
	REG-SB	50	2	60.3	3.9	2.37	0.15	В
	REG-SB	65	2 ¹ / ₂	73.0	5.2	2.87	0.20	В

SOC

	Size mm	Size in.	ID mm	T mm	ID in.	T in.	L mm	L in.	Cone			
Socket welding ANSI (B 16.11)												
REG-SA / SB	15 20	1/2 3/4	21.8 27.2	6.0 7.6	0.858 1.071	0.235 0.299	10 13	0.39 0.51	A and B			
REG-SA / SB	25 32 40	1 1 ¹ / ₄ 1 ¹ / ₂	33.9 42.7 48.8	7.2 6.1 6.6	1.335 1.743 1.921	0.284 0.240 0.260	13 13 13	0.51 0.51 0.51	A and B			

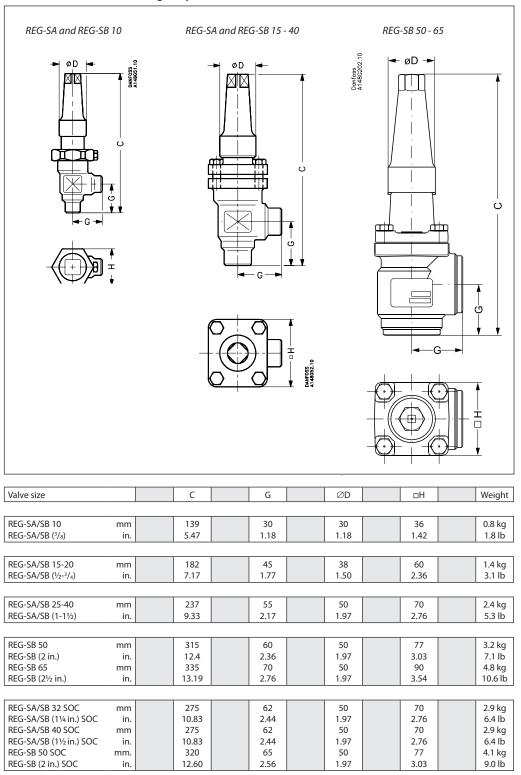
FPT

	Size mm	Size in.	Inside pipe thread	Cone
FPT inside pip	e thread	d, NPT (A	NSI/ASME B 1.20.1)	
 REG-SA / SB	15 20	1/2 3/4	(¹ / ² × 14 NPT) (³ / ⁴ × 14 NPT)	A and B
REG-SA / SB	25 32	1 1 ¹ /4	(1 × 11.5 NPT) (1 ¹ / ⁴ × 11.5 NPT)	A and B



Dimensions and weights

REG-SA and REG-SB 10 - 65 in angleway version

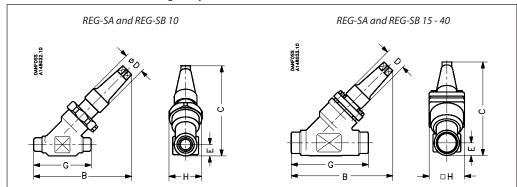


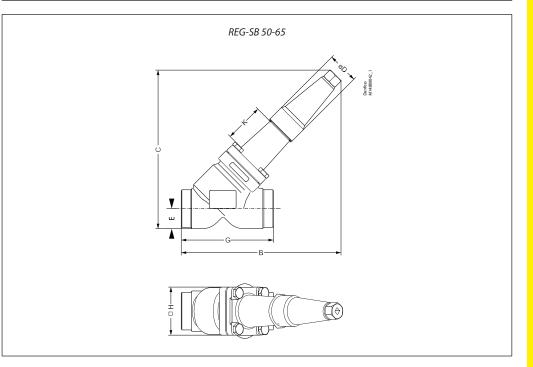
Specified weights are approximate values only.



Dimensions and weights *(cont.)*

REG-SA and REG-SB 10 - 40 in straightway version





Valve size		С	В	E	G	ØD	ΠH	Weight
REG-SA/SB 10	mm	110	120	13	70	30	36	0.8 kg
REG-SA/SB (3/8)	in.	4.33	4.72	0.51	2.76	1.18	1.42	1.8 lb
REG-SA/SB 15-20	mm	145	155	20	120	38	60	2.0 kg
REG-SA/SB (1/2-3/4)	in.	5.71	6.10	0.79	4.72	1.50	2.36	4.4 lb
REG-SA/SB 25-40	mm	200	215	26	155	50	70	3.0 kg
REG-SA/SB (1-11/2)	in.	7.87	8.46	1.02	6.10	1.97	2.76	6.6 lb
REG-SB 50	mm	257	250	32	148	50	77	4.2 kg
REG-SB (2 in.)	in.	10.12	10.20	1.26	5.83	1.97	3.03	9.3 lb
REG-SB 65	mm	280	284	40	176	50	90	6.3 kg
REG-SB (21/2 in.)	in.	11.02	11.18	1.57	6.93	1.97	3.54	13.9 lb
REG 32 SOC	mm	209	222	27.4	155	50	70	3.0 kg
REG (1¼) SOC	in.	8.23	8.74	1.08	6.10	1.97	2.76	6.6 lb
REG 40 SOC	mm	213	222	31.0	155	50	70	3.0 kg
REG (11/2) SOC	in.	8.39	8.74	1.22	6.10	1.97	2.76	6.6 lb
REG-SB 50 SOC	mm	261	266	37	162	50	77	5.1 kg
REG-SB (2 in.) SOC	in.	10.28	10.47	1.26	6.38	6.38	3.03	11.2 lb

Specified weights are approximate values only.



Ordering

How to order The table below is used to indentify the valve required.

Please note that the type codes only serve to identify the valves, some of which may not form part of the standard product range. For further information please contact your local Danfoss Sales Company.

Type codes

Valve type	REG	Regulating Valv	es								
Nominal size in mm				Available cor	nection types						
			А	D	SOC	FPT					
(Valve size measured on	10	DN 10	х	х							
the connection diameter)	15	DN 15	х	х	х	Х					
	20	DN 20	х	х	х	Х					
	22	DN 22									
	25	DN 25	х	х	х	Х					
	32	DN 32	х	х	х	Х					
	40	DN 40	x x	x x	х						
	50	DN 50									
	65	DN 65	х	Х		1					
Connections	A	Welding branch Welding branch									
	D	Welding branches: EN 10220									
	SOC	Socket weld: AN	ISI B 16.11								
	FPT	NPT inside pipe thread: ANSI/ASME B1.20.1									
Valve housing	ANG	Angle flow									
	STR	Straight flow									
Cone A	Size:	Flow area [mm ²]									
	DN 10	3.02									
	DN 15	36.5									
	DN 20	36.5									
	DN 25	178									
	DN 32	178									
	DN 40	178									
Cone B	Size:	Flow area [mm ²]									
	DN 10	16									
	DN 15	19.9									
	DN 20	19.9									
	DN 25	531									
	DN 32	531									
	DN 40	531									
	DN 50	822									
	DN 65	1978									

Available combination between valve size, cone type and valve connection

Size		10 's")	-	15 2")	DN (³/		-	22 ₈ ")	DN (1	25 ")		32 / ₄ ")	-	40 ⁄2")		50 !")		l 65 ½")
Cone type	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В
DIN	×	×	×	×	×	×			×	×	×	×	×	×				
ANSI	×	×	×	×	×	×			×	×	×	×	×	×		×		×
SOC			×	×	×	×			×	×	×	×	×	×				
FPT			×	×	×	×			×	×	×	×						

 \times = available

Ordering

(continued)

Example: REG-SA (Cone A) 15 DIN angleway = **148B5226**

Important!

Where products need to be certified according to specific certification societies or where higher pressures are required, the relevant information should be included at the time of order.

REG-SA (Cone type A)

Butt-weld DIN (EN 10220)

Si	ze	Туре	Code no.
mm	in.		
Anglewo	ay - REG-1	SA with cone type A	
10	3/8	REG-SA 10 D ANG	148B5102
15	1/2	REG-SA 15 D ANG	148B5226
20	3/4	REG-SA 20 D ANG	148B5326
25	1	REG-SA 25 D ANG	148B5426
32	11/4	REG-SA 32 D ANG	148B5527
40	11/2	REG-SA 40 D ANG	148B5627

Butt-weld DIN (EN 10220)

Si	ze	Туре	Code no.
mm	in.		
Straight	way - RE	G-SA with cone type A	
10	3/8	REG-SA 10 D STR	148B5104
15	1/2	REG-SA 15 D STR	148B5228
20	3/4	REG-SA 20 D STR	148B5328
25	1	REG-SA 25 D STR	148B5428
32	11/4	REG-SA 32 D STR	148B5528
40	11/2	REG-SA 40 D STR	148B5629

Butt-weld ANSI (B 36.10 Schedule 80)

Size		Туре	Code no.
mm	in		

Angleway - REG-SA with cone type A				
10	3/8	REG-SA 10 A ANG	148B5106	
15	1/2	REG-SA 15 A ANG	148B5202	
20	3/4	REG-SA 20 A ANG	148B5302	
25	1	REG-SA 25 A ANG	148B5402	
32	11/4	REG-SA 32 A ANG	148B5502	
40	11/2	REG-SA 40 A ANG	148B5602	

Butt-weld ANSI (B 36.10 Schedule 80)

Size	Туре	Code no.	
mm	in.		

Straight	Straightway - REG-SA with cone type A				
10	3/8	REG-SA 10 A STR	148B5116		
15	1/2	REG-SA 15 A STR	148B5212		
20	3/4	REG-SA 20 A STR	148B5312		
25	1	REG-SA 25 A STR	148B5412		
32	11/4	REG-SA 32 A STR	148B5512		
40	11/2	REG-SA 40 A STR	148B5612		

Socket welding ANSI (B 16.11)

40

1¹/₂

Size mm in.		Туре	Code no.
Anglewo	iy - REG-S	SA with cone type A	
15	1/2	REG-SA 15 SOC ANG	148B5204
20	3/4	REG-SA 20 SOC ANG	148B5304
25	1	REG-SA 25 SOC ANG	148B5404
32	11/4	REG-SA 32 SOC ANG	148B5504

Socket welding ANSI (B 16.11)

Size		Туре	Code no.
mm	in.		
Straightway - RE		G-SA with cone type A	
15	1/2	REG-SA 15 SOC STR	148B5214
20	3/4	REG-SA 20 SOC STR	148B5314
25	1	REG-SA 25 SOC STR	148B5414
32	1 ¹ / ₄	REG-SA 32 SOC STR	148B5514

FPT inside pipe thread, NPT (ANSI/ASME B 1.20.1)

REG-SA 40 SOC ANG

148B5604

40

1¹/₂

Si	ze	Туре		Code no.
mm	in.			

Angleway - REG-SA with cone type A				
15	1/2	REG-SA 15 FTP ANG	148B5206	
20	3/4	REG-SA 20 FTP ANG	148B5306	
25	1	REG-SA 25 FTP ANG	148B5406	
32	11/4	REG-SA 32 FTP ANG	148B5506	

FPT inside pipe thread, NPT (ANSI/ASME B 1.20.1)

REG-SA 40 SOC STR

148B5614

Size		Туре	Code no.	
mm	in.			

Straightway - REG-SA with cone type A

15	1/2	REG-SA 15 FTP STR	148B5216
20	3/4	REG-SA 20 FTP STR	148B5316
25	1	REG-SA 25 FTP STR	148B5416
32	11/4	REG-SA 32 FTP STR	148B5516

D	=	Butt-weld DIN
Α	=	Butt-weld ANSI

- SOC = Socket weld
- FPT = Inside pipe thread
- ANG = Angleway
- STR = Straightway

Ordering

(continued)

Example: REG-SB (Cone B) 15 DIN angleway = **148B5227**

Important!

Where products need to be certified according to specific certification societies or where higher pressures are required, the relevant information should be included at the time of order.

REG-SB (Cone type B)

Butt-weld DIN (EN 10220)

Size		Туре	Code no.
mm	in.		
Anglewo	ay - REG-	SB with cone type B	
10	3/8	REG-SB 10 D ANG	148B5103
15	1/2	REG-SB 15 D ANG	148B5227
20	3/4	REG-SB 20 D ANG	148B5327
25	1	REG-SB 25 D ANG	148B5427
32	11/4	REG-SB 32 D ANG	148B5526
40	11/2	REG-SB 40 D ANG	148B5626
50	2	REG-SB 50 D ANG	148B5726
65	2 ¹ / ₂	REG-SB 65 D ANG	148B5826

Butt-weld DIN (EN 10220)

Size		Туре	Code no.			
mm	in.					
Straight	Straightway - REG-SB with cone type B					
10	3/8	REG-SB 10 D STR	148B5105			
15	1/2	REG-SB 15 D STR	148B5229			
20	3/4	REG-SB 20 D STR	148B5329			
25	1	REG-SB 25 D STR	148B5429			
32	11/4	REG-SB 32 D STR	148B5529			
40	11/2	REG-SB 40 D STR	148B5628			

Butt-weld ANSI (B 36.10 Schedule 80)

Size		Туре	Code no.
mm	in.		

Anglewo	Angleway - REG-SB with cone type B				
10	3/8	REG-SB 10 A ANG	148B5107		
15	1/2	REG-SB 15 A ANG	148B5203		
20	3/4	REG-SB 20 A ANG	148B5303		
25	1	REG-SB 25 A ANG	148B5403		
32	1 ¹ / ₄	REG-SB 32 A ANG	148B5503		
40	11/2	REG-SB 40 A ANG	148B5603		

Butt-weld ANSI (B 36.10 Schedule 80)

Si	ze	Туре	Code no.			
mm	in.					
Straight	Straightway - REG-SB with cone type B					
10	3/8	REG-SB 10 A STR	148B5117			
15	1/2	REG-SB 15 A STR	148B5213			
20	3/4	REG-SB 20 A STR	148B5313			
25	1	REG-SB 25 A STR	148B5413			
32	1 ¹ /4	REG-SB 32 A STR	148B5513			
40	11/2	REG-SB 40 A STR	148B5613			

Butt-weld ANSI (B 36.10 Schedule 40)

Size		Туре	Code no.
mm	in.		
Anglewa			
50	2	REG-SB 50 A ANG	148B5706
65	21/2	REG-SB 65 A ANG	148B5806

Butt-weld ANSI (B 36.10 Schedule 40)

Size		Туре	Code no.		
mm	in.				
Angleway - REG-SB with cone type B					
50	2	REG-SB 50 A STR	148B5724		
65	2 ¹ / ₂	REG-SB 65 A STR	148B5809		

Socket welding ANSI (B 16.11)

Si	ze	Туре	Code no.		
mm	in.				
Anglewo	Angleway - REG-SB with cone type B				
15	1/2	REG-SB 15 SOC ANG	148B5205		
20	3/4	REG-SB 20 SOC ANG	148B5305		
25	1	REG-SB 25 SOC ANG	148B5405		
32	1 ¹ / ₄	REG-SB 32 SOC ANG	148B5505		
40	1 ¹ / ₂	REG-SB 40 SOC ANG	148B5605		
50	2	REG-SB 50 SOC ANG	148B5727		

Socket welding ANSI (B 16.11)

Si	ze	Туре	Code no.			
mm	in.					
Straight	Straightway - REG-SB with cone type B					
15	1/2	REG-SB 15 SOC STR	148B5215			
20	3/4	REG-SB 20 SOC STR	148B5315			
25	1	REG-SB 25 SOC STR	148B5415			
32	1 ¹ / ₄	REG-SB 32 SOC STR	148B5515			
40	1 ¹ / ₂	REG-SB 40 SOC STR	148B5615			
50	2	REG-SB 50 SOC STR	148B5725			

FPT inside pipe thread, NPT (ANSI/ASME B 1.20.1)

Size		Туре	Code no.
mm	in.		
Anglewo			
15	1/2	REG-SB 15 FTP ANG	148B5207
20	3/4	REG-SB 20 FTP ANG	148B5307
25	1	REG-SB 25 FTP ANG	148B5407
32	1 ¹ /4	REG-SB 32 FTP ANG	148B5507

FPT inside pipe thread, NPT (ANSI/ASME B 1.20.1)

Si	ze	Туре	Code no.		
mm	in.				
Straight	Straightway - REG-SB with cone type B				
15	1/2	REG-SB 15 FTP STR	148B5217		
20	3/4	REG-SB 20 FTP STR	148B5317		
25	1	REG-SB 25 FTP STR	148B5417		
32	1 ¹ / ₄	REG-SB 32 FTP STR	148B5517		

- A = Butt-weld ANSI
- SOC = Socket weld
- FPT = Inside pipe thread

ANG = Angleway

STR = Straightway





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