

SMALL VALVE, 4 and 8 mm

The small 4 and 8 mm valves are intended for use with instruments and line gauge equipment.

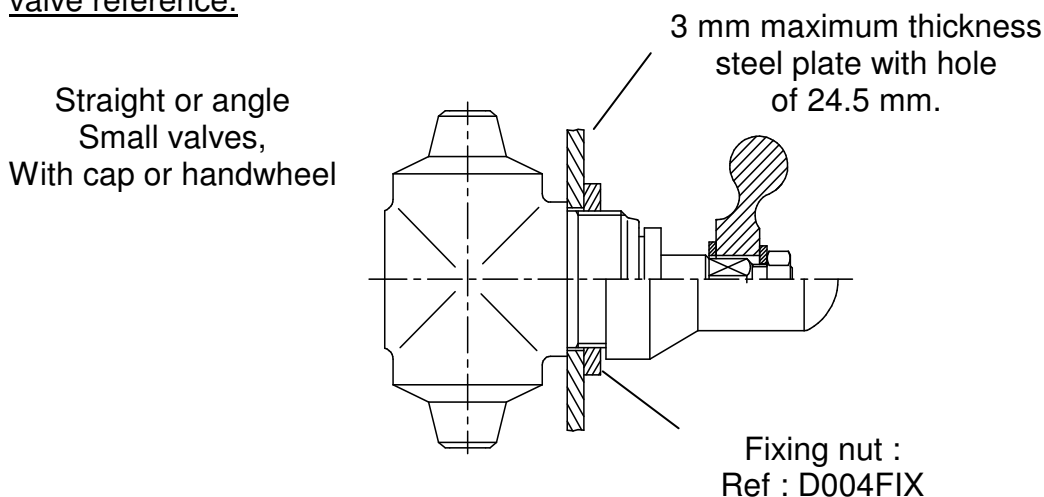
The RFF valves are manufactured from low temperature steel with stainless steel spindles sealed by "O" rings and designed in a special way which gives good gas tightness. Sealing is made by steel spindle on steel face (metal to metal).

The nominal pressure is 25 bar with higher pressure up to 65 bar available on request.

With our old design the cap was screwed on the gland nut whereas with the new design cap is directly screwed on the body. This ensures not to unscrew gland nut when removing the cap.

The gland nut and the spindle have different threads to avoid to unscrew gland nut when opening the valves.

New small valves can be mounted by using a 3mm maximum thickness steel plate fixed with locking nut. The locking nut has to be ordered separately. (order reference No. D004*FIX). Be careful this fixing nut not suit with all RFF small valve reference.



As these valves have a simple design, they are not designed for back seating. The fluid enters under the spindle with the external equipment connected to the outlet. When the valve is closed isolating the external equipment it is possible to change the O-rings in the gland nut.

NEW REFERENCES

Due to the wide increase in different connection now available RFF have changed their code references for the 4mm and 8mm valves.

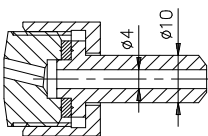
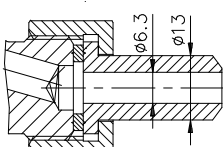
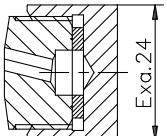
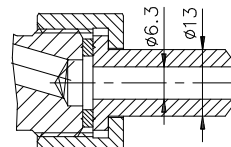
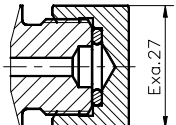
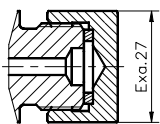
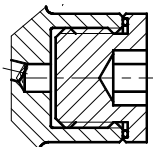
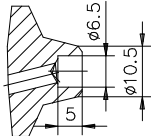
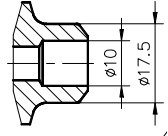
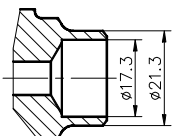
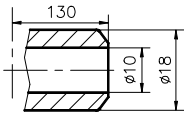
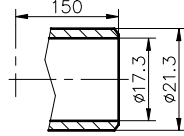
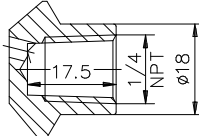
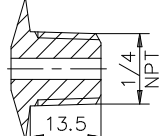
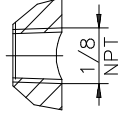
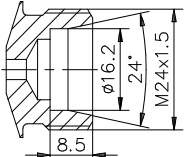
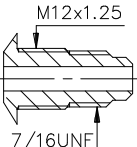
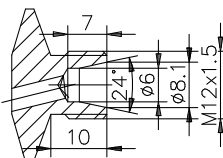
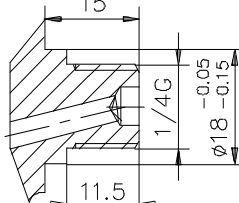
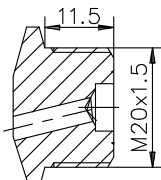
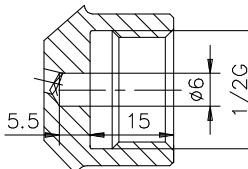
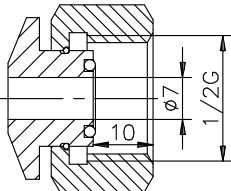
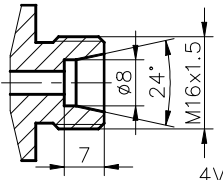
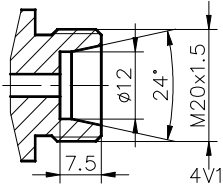
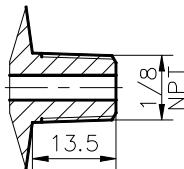
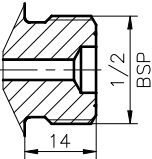
When placing an order please use the following computer codes :

REFERENCES						
D	...	*	X	X	XX	XX
Steel range	DN(mm)	Valve	V : with handwheel C : with cap	D : Straight E : Angle	Inlet code connection	Outlet code connection

STEEL VALVES DN 4 : STANDARDS REFERENCES

Straight valve		Angle valve	
With cap	With handwheel	With cap	With handwheel
D004*CDE1E1	D004*VDE1E1	D004*CES1E1	D004*VES1E1
D004*CDS1E1	D004*VDS1E1	D004*CES1S1	D004*VES1S1
D004*CDS1E3	D004*VDS1E3	D004*CES1V1	D004*VES1V1
D004*CDS1E4	D004*VDS1S1	D004*CES1V7	D004*VES1V16
D004*CDS1S1	D004*VDS1V1	D004*CES1V17	D004*VES3V7
D004*CDS1V1	D004*VDS2V1	D004*CES3V1	D004*VES3V16
D004*CDS1V7	D004*VDV1V1	D004*CES3V12	D004*VES4V1
D004*CDS1V9	D004*VDV7V7	D004*CES3V18	D004*VES4V3
D004*CDS1V17		D004*CEV14E5	D004*VEV1V1
D004*CDS2V1		D004*CEV2V1	D004*VEV1V7
D004*CDV1V1		D004*CEV2V4	D004*VEV2V1
D004*CDV7V7		D004*CEV2V6	D004*VEV2V7
D004*CDV7V11		D004*CEV2V11	D004*VEV2V16
D004*CDV8E1		D004*CEV2V12	D004*VEV2V19
D004*CDV8E3		D004*CEV2V13	D004*VEV8V16
		D004*CEV2V16	D004*VEV17V16
		D004*CEV8V19	

CONNECTIONS DN 4

<p>E1 Steel nozzle ISO M20x1.5</p> 	<p>E2 Stainless steel nozzle 1/2 BSP</p> 	<p>E3 Steel blank nut ISO M20x1.5</p> 	<p>E4 Steel nozzle 1/2 BSP</p> 	<p>E5 Steel blank nut 1/2 BSP</p> 
<p>E7 Stainless steel blank nut 1/2 BSP with alu gasket</p> 	<p>E8 Steel blank nut male 1/2 BSP</p> 	<p>S1 Weld / braze</p> 	<p>S2 weld 10 x 17.5</p> 	<p>S3 weld 17.3 x 21.3</p> 
<p>S4 weld 10 x 18 x 130</p> 	<p>S5 weld 17.3 x 21.3 x 150</p> 	<p>V1 1/4 NPT female</p> 	<p>V2 1/4 NPT male</p> 	<p>V3 1/8 NPT female</p> 
<p>V4 Olive joint Ø 16</p> 	<p>V5 Flare joint + M12</p> 	<p>V7 Olive joint Ø 6 stainless steel</p> 	<p>V8 1/4 Gaz (BSP) male</p> 	<p>V9 M20 x 1.5 ISO</p> 
<p>V10 1/2 Gaz (BSP) female</p> 	<p>V11 1/2 G Rotary female</p> 	<p>V12 Olive joint Ø 8 ser S</p> 	<p>V13 Olive joint Ø 12 sér S</p> 	<p>V14 1/8 NPT male</p> 
<p>V15 1/2 BSP male</p> 				

CONNECTIONS DN 8

<p>E1 Steel nozzle ISO M24x1.5</p>	<p>E2 Steel nozzle 1/2 BSP</p>	<p>E3 Stainless steel nozzle 1/2 BSP</p>	<p>E4 Steel blank nut ISO M24x1.5</p>	<p>E5 Steel blank nut 1/2 BSP</p>
<p>E6 Stainless steel blank nut 1/2 BSP</p>	<p>E7 Stainless steel blank nut 1/2 BSP – alu gasket</p>	<p>E8 Steel blank nut male 1/2 BSP</p>	<p>S1 Weld / braze</p>	<p>S2 weld 7.5x17.5</p>
<p>S3 weld 10 x 17.5</p>	<p>S4 weld 10 x 18 x 60</p>	<p>S5 weld 10 x 18x 130</p>	<p>S6 weld 17.3 x 21.3</p>	<p>S7 weld 12.9 x 17.5</p>
<p>S8 weld 16.1 x 21.6</p>	<p>S9 weld 17.3x21.3x150</p>	<p>S10 weld 17.3x21.3x90</p>	<p>S12 weld 10 x 18 x 200</p>	<p>S13 weld 10 x 18 x 90</p>
<p>V1 1/2 BSP male</p>	<p>V2 Olive joint Ø 16</p>	<p>V4 M24 x 1.5 ISO</p>	<p>V5 3/8 NPT female</p>	<p>V6 1/2 Gaz (BSP) female</p>
<p>V7 1/2 G Rotary female</p>	<p>V8 3/8 NPT male</p>	<p>V9 Olive joint Ø 12</p>	<p>V10 3/8 BSP male</p>	<p>V11 3/8 BSP female</p>
<p>V12 1/2 NPT male</p>	<p>V13 1/2 NPT female</p>	<p>V14 1/4 NPT female</p>	<p>V15 3/8 SAE</p>	<p>V16 1/2 BSP CON male</p>
<p>V17 1/2 BSP CON female</p>				

STEEL VALVES DN 8 : STANDARDS REFERENCES

STEEL

Straight valve		Angle valves	
With cap	With Handwheel	With cap	With Handwheel
D008*CDE1E1	D008*VDE1E1	D008*CEE2E2	D008*VEE2E2
D008*CDE2E2	D008*VDE2E2	D008*CEE2E5	D008*VEE2E5
D008*CDE2E5	D008*VDE2E5	D008*CES1E2	D008*VES1E2
D008*CDE4E4	D008*VDS1E1	D008*CES1E5	D008*VES1E5
D008*CDS1E1	D008*VDS1E2	D008*CES1E6	D008*VES1S1
D008*CDS1E2	D008*VDS1E4	D008*CES1S1	D008*VES1V5
D008*CDS1E4	D008*VDS1E5	D008*CES1V1	D008*VES3E5
D008*CDS1E5	D008*VDS1S1	D008*CES1V5	D008*VES5V6
D008*CDS1S1	D008*VDS1V1	D008*CES1V6	D008*VES5V7
D008*CDS1V1	D008*VDS1V5	D008*CES1V11	D008*VES5V14
D008*CDS1V2	D008*VDS1V6	D008*CES1V15	D008*VES7S7
D008*CDS1V5	D008*VDS6V6	D008*CES2E2	D008*VEV1V1
D008*CDS1V6	D008*VDS7S7	D008*CES2E5	D008*VEV1V6
D008*CDS1V11	D008*VDV1V1	D008*CES2V1	D008*VEV5V5
D008*CDS1V15	D008*VDV16V7	D008*CES2V5	D008*VEV10V10
D008*CDS3E5		D008*CES3E5	D008*VEV10V12
D008*CDS3S3		D008*CES3V7	
D008*CDS4V6		D008*CES4E5	
D008*CDS5V6		D008*CES4V1	
D008*CDS6E5		D008*CES5E5	
D008*CDS6S6		D008*CES5V1	
D008*CDS7E5		D008*CES6E2	
D008*CDS7S7		D008*CES6E5	
D008*CDS7V1		D008*CES6S6	
D008*CDS8S8		D008*CES6V1	
D008*CDV1E2		D008*CES7S7	
D008*CDV1V1		D008*CES8S11	
D008*CDV1V6		D008*CES12V1	
D008*CDV5V5		D008*CES13V5	
D008*CDV6V6		D008*CEV1E5	
D008*CDV8E4		D008*CEV1V1	
D008*CDV11V11		D008*CEV1V5	
		D008*CEV1V6	
		D008*CEV1V7	
		D008*CEV1V10	
		D008*CEV1V11	
		D008*CEV1V13	
		D008*CEV2V1	
		D008*CEV5S7	
		D008*CEV8V3	
		D008*CEV8V5	
		D008*CEV8V10	
		D008*CEV8V15	
		D008*CEV10V10	
		D008*CEV12V13	
		D008*CEV16V17	

STANDARDS COMBINATIONS

<p>DN...VDS1S1, DN...CDS1S1</p>	<p>DN...CDS1E1, DN...VDS1E1</p>	<p>DN...VES1S1, DN...CES1S1</p>
<p>DN 8CDS1V1, DN 8VDS1V1</p>	<p>DN 8CDV1V1, DN 8VDV1V1</p>	<p>DN...CDE1E1, DN...VDE1E1</p>
<p>DN4 VDS1V1, DN 4CDS1V1</p>	<p>Blank nut</p>	<p>Fixing nut D004FIX 3mm thick mounting plate</p>

Dimensions in millimeters																			
DN (mm)	DN for Brazing	DN for Welding	A	B	C	E	F	G	H1	H2	H3	H4	J	K	L	CD	HD	ID	OD
4	1/4"	1/8"	15	30	5	-	-	58	90.5	96.5	76	82	-	1/4NPTcon.	10x4	28	50	6.5	10.5
8	3/8"	1/4"	15	34	8	9	3	58	90.5	96.5	76	82	1/2BSP	-	13x8	28	50	9.7	13.8

STAINLESS STEEL VALVES 4 AND 8 mm

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SMALL STAINLESS STEEL VALVE FROM 4 TO 8mm

STAINLESS

The small 4 and 8 mm valves are intended for use with instruments and line gauge equipment.

The RFF valves are made in stainless steel bodies X4CrNi18-10 (1.4301) EN10088-3. The two spindle 'O'-rings ensure a high quality seal.

The nominal design pressure is 25 bar with higher pressure 65 bar on request. The temperature range is from -50 °C to +150 °C.

Sealing is made by steel spindle on steel face (metal to metal).

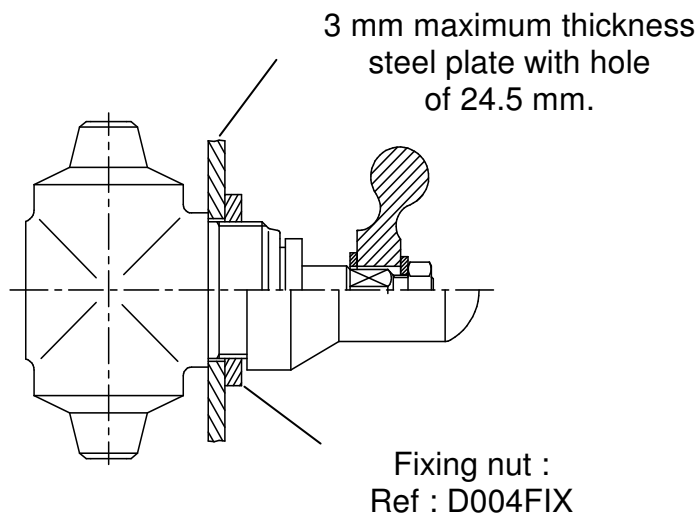
The design incorporates screwed components. The valve cap and gland nut are screwed in to the body using different threads which ensures it is impossible to unscrew the gland nut when the cap is removed.

RFF stainless steel valves have aluminium cap or bakelite handwheel.

They have a back-seat in PTFE which allows the O-rings to be replaced while the plant is operating.

New small valves can be mounted by using a 3mm maximum thickness steel plate fixed with locking nut. The locking nut has to be ordered separately. (order reference Number : D004*FIX). This locking nut is only available made in steel. Be careful this fixing nut not suit with all RFF small valve reference.

Straight or angle
Small valves,
With cap or handwheel



NEW REFERENCES

Following the different possibilities, RFF have changed their computer reference for 4 and 8mm valve.

To place an order, please use the following classification.

REFERENCES						
I	...	*	x	x	xx	xx
Stainless Steel range	DN(mm)	Valve	V : with handwheel C : with cap	D : Straight E : Angle	Inlet code connection	Outlet code connection

Available connections : See page 9 and 10

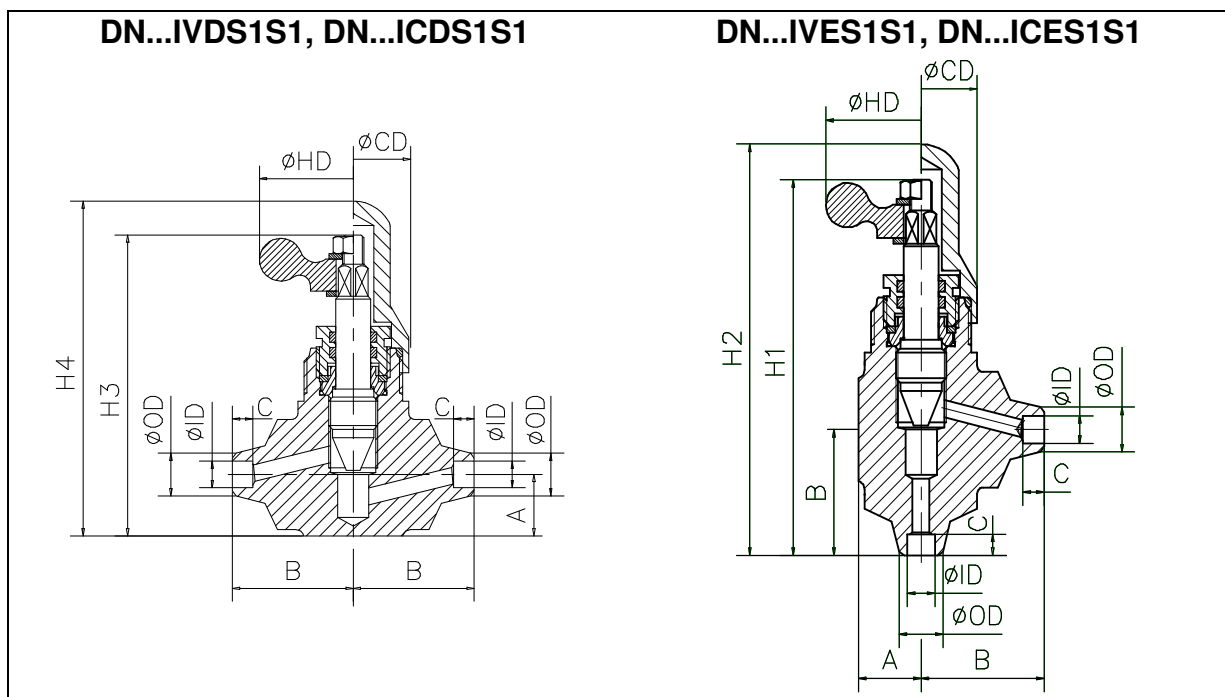
STANDARDS REFERENCES - VALVES DN 4 AND 8

STAINLESS

STAINLESS STEEL VALVE DN 4			
Straight valve		Angle valve	
With cap	With handwheel	With cap	With handwheel
I004*CDS1E2	I004*VDS3V10	I004*CEV2V1	I004*VEV2V11
I004*CDS1S1	I004*VDV8S1	I004*CEV2V13	I004*VES1V16
I004*CDS3V1	I004*VDS3V11	I004*CES1S1	I004*VEV2V5
I004*CDS5V1	I004*VDS1S1	I004*CES1E2	I004*VEV2V16
I004*CDE2E2	I004*VDS1E2	I004*CEE2E2	I004*VES3V11
I004*CDV1V1	I004*VDE2E2		I004*VES1S1
	I004*VDV1V1		I004*VES1E2
			I004*VEE2E2

STAINLESS STEEL VALVE 8			
Straight valve		Angle valve	
With cap	With handwheel	With cap	With handwheel
I008*CDE3E3	I008*VDE3E3	I008*CEE3E3	I008*VEE3E3
I008*CDE3E6	I008*VDS1E3	I008*CEE3E6	I008*VEE3E6
I008*CDE3E7	I008*VDS1S1	I008*CEE3E7	I008*VES1S1
I008*CDS1S1	I008*VDS9E6	I008*CES1E3	I008*VES1E3
I008*CDS1E3	I008*VDS9V11	I008*CES1E6	I008*VES1E6
I008*CDS1E6	I008*VDS10E3	I008*CES1S1	I008*VES6V7
I008*CDS1V2	I008*VDS10E6	I008*CES3V1	I008*VES9V7
I008*CDS3S3	I008*VDS10V11	I008*CES6E6	I008*VES10V1
I008*CDS6E3		I008/CES6V11	I008*VES10V7
I008*CDS6E6		I008*CES9E6	I008*VEV1V6
I008*CDS6V1		I008*CES9V1	
I008*CDV1E6		I008*CES9V14	
I008*CDV5V5		I008*CES10E6	
		I008*CEV1V6	
		I008*CEV8V5	
		I008*CEV8V9	
		I008*CEV12V13	

SMALL STAINLESS STEEL VALVES FROM 4 TO 8mm



DIMENSIONS IN MILLIMETERS													
DN (mm)	DN for brazing	DN for welding	A	B	C	H1	H2	H3	H4	CD	HD	ID	OD
4	1/4"	1/8"	15	29.5	5	90.5	96.5	76	82	28	50	6.5	10.5
8	3/8"	1/4"	15	29.5	8	90.5	96.5	76	82	28	50	9.7	13.8