

Non-Rising Stem Resilient Seated Gate Valve To BS5163

Introduction

Alfran Non-Rising Stem Resilient Seated Gate Valve is designed and manufactured to comply with BS5163 specifications & requirements. Alfran gate valves not only attracts the eyes of our customers but also guarantees a bubble-tight shut-off in pipelines in which it is installed. These RS gate valves have the following special features and available from 50mm to 300mm.

Main Features

Fully Encapsulated Wedge

The wedge is fully encapsulated with vulcanized EPDM, specially compounded for long life, durability & protection against corrosion. There is no exposed iron.

Bubble-Tight Shut-Off

A single resilient seal is formed betwen the fully encapsulated resilient wedge & the valve body to guarantee bubble-tight shut-off every time.

Superior Epoxy Coating

The entire valve body & bonnet, inside and out, are fully coated with fusion bonded powder epoxy coating that protect them against corrosion & prevent tuberculation & scale buildup.

"O" - Ring Stem Seals and Dirt Seal

The unique design allow all the "O"- Rings to be easily replaced in the line while the valve is under pressure in the open position. Additional "O"- Ring under the thrust collar is available upon request.

Stainless Steel Stem and Thrust Collar

This time tested design has two thrust washers and repeatedly proven its superior strength over cast items. Stainless steel stem having left-hand rolled, ACME tread with ISO-metric tapezoidal profile. The shaft end is also burnished.

Bronze Stem Nut Hydro-static Test

The bronze stem nut is electrically-isolated from the iron in the wedge for corrosion resistence. The nut is held tightly in place to resist stem binding.



Full Round, Smooth Bottom Flow Way

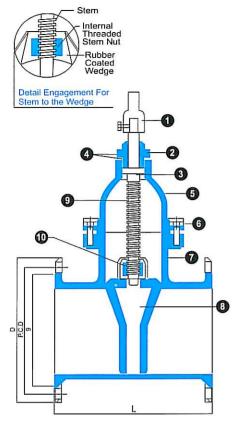
The bottom has no grooves or recesses that can collect sediment or debris and compromise the seal. Accommodates full-size shell cutter with ample clearance during tapping operations.

Integral legs

Flat cast at the bottom of the valve body let the valve stand upright in storage or during installation.

Pressure Rating	Hydro-static Test					
riessure Raung	Shell	Seat				
PN6	6.6bars	9.0bars				
PN10	11.0bars	15.0bars				
PN16	17.6bars	24.0bars				
PN25	27.5bars	37.5bars				

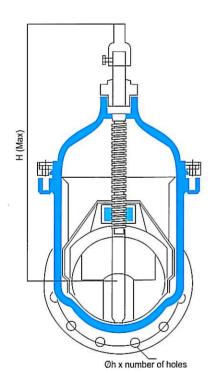
*Alfran gate valves are 100% hydro-static tested strictly accordance to BS6755 and EN-12266-3



Basic Materials

ITEM	COMPONENT	MATERIAL	BS REFERENCE	GRADE OR DESIGNATION			
1	Сар	Cast Iron / Ductile Iron	BS 1452 / BS 2789	"220 / 420/12, 500/17"			
2	Gland	Alloy (Gun Metal)	BS 1400	LG2			
3	Thrust Washer	Acetel Resin		Nylon Type 66			
4	"O" Ring	Synthetic Rubber	BS 2494	EPDM			
5	Bonnet	Cast Iron / Ductile Iron	BS 1452 / BS 2789	"220 / 420/12, 500/17"			
6	Bolt & Nut	Steel	BS 4190 / BS 970	Zinc Plated / G304			
7	Body	Cast Iron / Ductile Iron	BS 1452 / BS 2789	"220 / 420/12, 500/17"			
8	Wedge	Cast Iron / Ductile Iron	BS 1452 / BS 2789	"220 / 420/12, 500/17"			
		Synthetic Rubber	BS 2494	EPDM			
9	Stem	Stainless Steel	BS 970 Part 1	431S29			
10	Stem Nut	Alloy (Gun Metal)	BS 1400	LG2			

Unit: mm



Flange to BS 4504 Section 3.2 PN16

DN		50	80	100	150	200	250	300	350	400	450	500	600	
Face - to - face Dimension		L	178	203	229	267	292	330	356	381	406	432	457	508
		+	2	2	2	3	3	3	3	3	3	3	3	4
Outside Dia. (D)		165	200	220	185	340	400	455	520	580	640	715	840	
Raise Face Dia. (g)		103	138	158	212	264	319	367	432	484	548	606	721	
P.C.D Bolt Holes No.		125	160	180	240	295	355	410	40	525	585	650	770	
		No.	4	8	8	8	12	12	12	16	16	20	20	20
	h		19	19	19	23	23	28	28	26	30	30	3	36
Bolt Designation		M16	M16	M16	M20	M20	M24	M24	M24	M27	M27	M30	M33	
	Ductile	t	16.0	16.0	16.0	17.0	17.0	19.0	20.5	22.5	24.0	26.0	27.5	31.0
Thickness		f	3	3	3	3	3	3	4	4	4	4	4	5
IIIUKIIESS	Grey Cast	t	7.0	19.0	21.0	23.0	27.0	29.0	28.0	36.0	38.0	40.0	42.0	48.0
		f	3	3	3	3	3	3	4	4	4	4	4	5
Height (H)		330	360	385	510	615	690	790	950	1050	1150	1250	1500	
Turn / Stroke (Round)		4.0	6.5	8.0	12.0	16.0	20.0	24.0	31.0	33.0	35.0	37.0	41.0	
Weight (kg)		24	28	31	56	85	125	180	472	600	780	980	1380	

In the interest of product development, the designs & dimensions are subject to change without prior notification.