

WFB TYPE – FEATURES



Saunders® WFB Design

Saunders[®] WFB valves provide a reliable solution for fire and marine applications.

With fire you only get one chance!



WFB TYPE-STANDARDS

Saunders[®] WFB valves are utilised as fire mains hydrants and in tank cleaning services for marine and offshore oil installations. Available in DN40 and DN65 sizes, these are highly specialised valves that have been tested and approved by the world's leading safety agencies, and are designed to work up to a maximum pressure of 15 bar.



"We specified Saunders WFB 65 mm nominal bore fire-mains hydrant valves for our ferries and cruise liners. Significant factors behind this choice are the excellent reliability and the low maintenance costs." P&O Cruises (UK) Ltd

Valve Standards

Saunders® WFB valves are manufactured to the following standards:

Flanged					
American	ASME/ANSI B16.24 Class 150 (Gunmetal)				
American	ASME/ANSI B16.34 Class 150 (SG iron)				
British	BS 10 Tables D & E (Gunmetal and SG iron)				
Dritich / Furencen ¹	BS EN 1092-2 PN10/16 (SG iron)				
British/ European ¹	BS EN 1092-3 PN10/16 (Gunmetal)				
Japanese	JIS 2239 10K (SG iron)				
	JIS 2240 10K (Gunmetal)				

Screwed						
••	NFPA ² 1963 1.5-9 NH (DN40)					
America	NFPA ² 1963 2.5-7.5 NH (DN65)					
British/ European ³	BS EN 10226-1 Parallel					
	BS EN 10226-2 Taper					
Netional Fine Ducto stick Association						

² National Fire Protection Association ³ Replaces BS 21 Parallel and Taper

¹Replaces BS 4504 PN10/16



Lloyds Register of Shipping LR Type Approval Certificate Certificate No: 97/00047 Model: DN40, DN65



Bureau Veritas Type Approval Certificate Certificate No: 2207 3457 C10 H Model: DN40, DN65

Registro Italiano Naval

Rina

Type Approval

Certificate No: MAC/057/94

Model: DN65



American Bureau of Shipping List of Type Approved Equipment Page 25. Certificate No: 96-WM10305-X Model No: DN40, DN65

Product Approvals

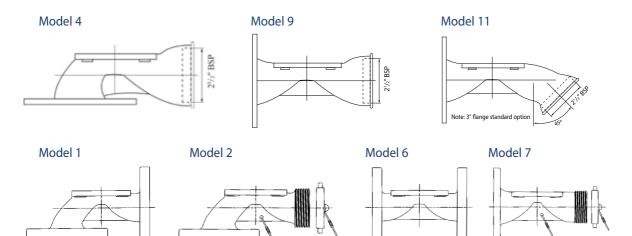
The whole fire hydrant valve has successfully undergone a high-temperature resistance test (540°C for 20 minutes), BS 5041 Part 1, audited by a Lloyds Surveyor.



WFB TYPE - BODY AND DIAPHRAGM

Body

WFB valves are available in SG iron or gunmetal providing high mechanical strength and resistance to accidental impact. Gunmetal bodies provide superior corrosion resistance, even on highly-demanding applications. Saunders[®] provides different WFB valve designs with both female and male end connections for different applications. Additionally, couplings and chains e.g. Morris Instantaneous coupling for the female screwed ends, are available.



Diaphragm

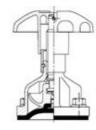
The diaphragm separates the working parts of the valve from the line media, so there is no chance of internal corrosion of the valve, which is the main cause of fire valve failure.

Cap and chain as shown is option



Diaphragm	Composition	Applications			
286	CSM (Chlorosulfonated Polyethylene)	Fire resistant diaphragm specifically designed for fire application valves.			
226	FKM (Fluoroelastomer)	This diaphragm (not fire resistant) is a perfect solution for wash decks, with great resistance to lubricating oils and fuel.			

Top Works



Standard bonnet - Rising handwheel with indicator

All valve sizes



WFB TYPE - FULLY ASSEMBLED VALVE

Body Material Options and Weights

1									-
	Size			Body					
	(DN)	1	2	4	6	7	9	11	Materíals
	40	-	\checkmark	\checkmark	-	\checkmark	\checkmark	-	Gunmetal
	65	~	~	~	~	~	~	~	Gunmetal or SG Iron

Body	Size	Weight (kg) / Model					
Body Materials	(DN)	4	9	11			
Cummetel	40	8.8	8.5	9.8			
Gunmetal	65	10.3	10.0	11.5			
SG Iron	65	8.4	7.9	9.8			



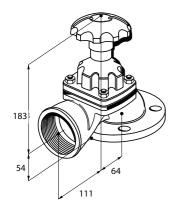
Model 4 with body and bonnet material in SG iron

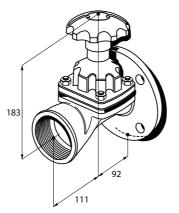


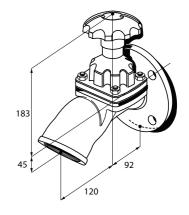
Model 9 with body and bonnet material in gunmetal



Model 11 with body and bonnet material in gunmetal







All dimensions are specified in mm.

Pressure testing: Saunders[®] WFB valves tested in accordance with the BS5041 standard i.e. body strength test to 22.5 bar, seat test to 16.5 bar (1.1 x maximum working pressure).