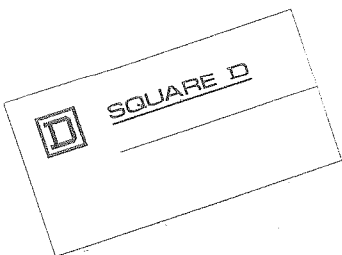
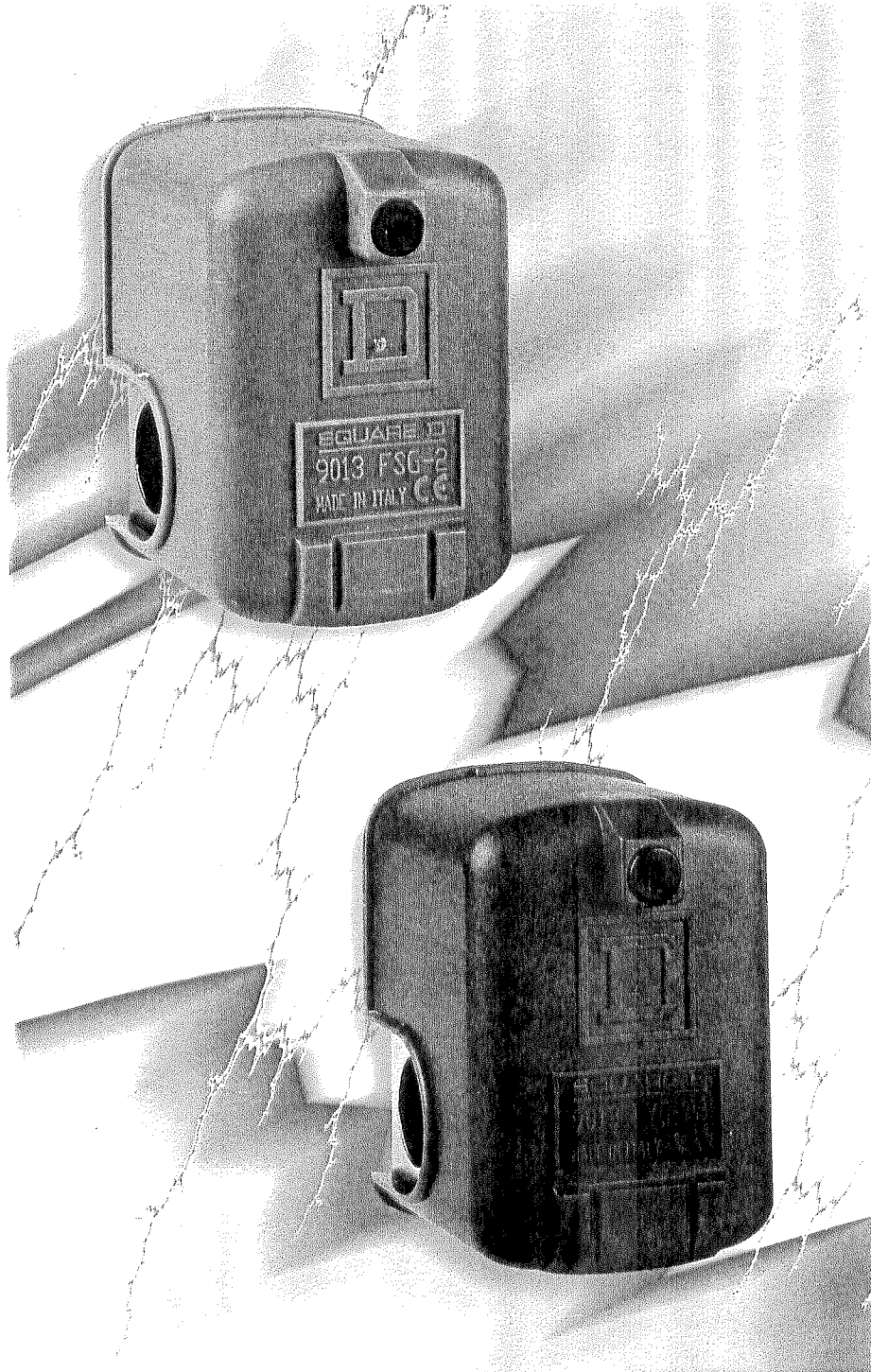


# Class 9013 Water Pump Pressure Switches



GROUPE SCHNEIDER

# Water Pump Pressure Switches

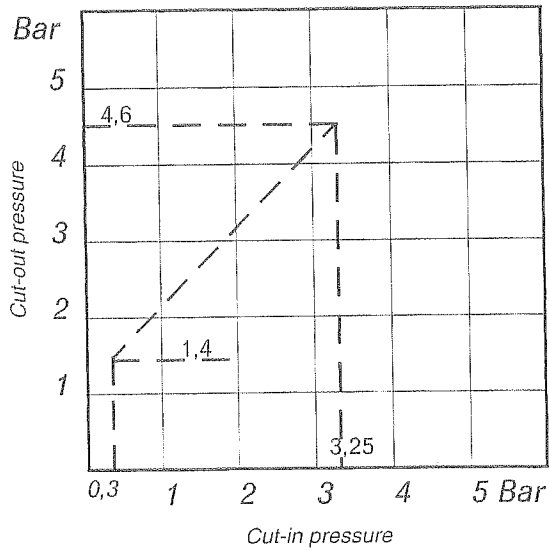
## Type F

Type		Suitable for the direct control of motors (Contacts open on increasing pressure)					Suitable for control circuit (1 NO and 1 NC contacts)					
		FTG-2	FTG-9	FSG-2	FSG-9	FYG-22	FYG-32	FXG-2	FXG-3	FXG-4		
Cut-Out Pressure Range-Bars on increasing pressure (1)		1,4 - 4,6	1,4 - 4,6	1,4 - 4,6	1,4 - 4,6	2,8 - 7,0	5,6 - 10,5	1,4 - 4,6	2,8 - 7,0	5,6 - 10,5		
Adjustable Differential  (Differential widens as range increases)	Lower end	1,10 non adj.	1,10 non adj.	1,0 - 2,1	1,0 - 2,1	1,2 - 2,3	1,9 - 3,0	1,0 - 2,1	1,2 - 2,3	1,9 - 3,0		
	Middle	1,30 non adj.	1,30 non adj.	1,1 - 2,2	1,1 - 2,2	1,4 - 2,5	2,1 - 3,2	1,1 - 2,2	1,4 - 2,5	2,1 - 3,2		
	Upper end	1,50 non adj.	1,50 non adj.	1,2 - 2,3	1,2 - 2,3	1,6 - 2,7	2,3 - 3,4	1,2 - 2,3	1,6 - 2,7	2,3 - 3,4		
Factory Setting		1,4 - 2,8	1,4 - 2,8	1,4 - 2,8	1,4 - 2,8	5,4 - 7	8 - 10,5	1,4 - 2,8	5,4 - 7	8 - 10,5		
Maximum allowable pressure - Bars		15	15	15	15	15	15	15	15	15		
Repeat accuracy		<2%	<2%	<2%	<2%	<2%	<2%	<2%	<2%	<2%		
Maximum operating cycle - cycles/h		3600	3600	3600	3600	3600	3600	3600	3600	3600		
Net weight - Kg		0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35		
Pressure connection		UNI ISO 228/1 G 1/4	UNI ISO 7/1 R 1/4	UNI ISO 228/1 G 1/4	UNI ISO 7/1 R 1/4	UNI ISO 228/1 G 1/4		UNI ISO 228/1 G 1/4				
Electrical Ratings		$U_i = 500\text{ V} \sim$ $I_m = 20\text{ A}$		$U_i = 500\text{ V} \sim$		$I_m = 20\text{ A}$		$U_i = 250\text{ V} \sim$		$I_{th} = 10\text{ A}$		
		Volt	Single Phase AC	Poly Phase AC	Single Phase AC	Poly Phase AC	DC		DC - 13			
		32	-	-	-	-	1/4 HP		24 V	6 A	3 A	1,5 A
		110	1 HP	1 1/2 HP	1 HP	1 1/2 HP	1/4 HP		110 V	6 A	3 A	1,5 A
		220	1 1/2 HP	2 HP	2 HP	3 HP	1/4 HP		220 V	3 A	0,25 A	0,10 A
		380	2 Hp	2 Hp	2 HP	3 Hp	1/4 HP		X = NO or NC contact wired Y = Both NO and NC contact wired			
Electrical Life		40.000 oper. at rated values and 600 oper./h			100.000 oper at reted values and 600 oper./h			3 million oper. at rated values and 1200 oper./h				
Short Circuit protection		fuse rating 20 A type g' or g" per IEC 296-2						fuse rating 10 A type g' or g" per IEC 296-2				
<b>Technical Data</b>												
Ingress protection		IP 20 (IP 23 if installed with pressure connection downwards)										
Ambient Temperature		- 30°C min.				+ 80°C max.						
Pressure Media Temperature		- 30°C min.				+ 125 °C max.						
Cover material		Shock-resistant Polystyrene										
Diaphragm		Nitrile rubber										
Flange material		nylon 6/6 with steel connector, zinc plated (Steel, zinc plated for Types FYG and FXG)										
Switch mechanism		Steel, zinc plated and passivated - Mechanism incorporates hardened parts										
Contacts		Silver Alloy										
Terminals		Screws 8-32 UNC X 8 (Screws M3,5 with self lifting clamp for types FXG)										
Wiring		1 mm <sup>2</sup> min			2 X 4 mm <sup>2</sup> max.		(0,75 mm <sup>2</sup> min. 2X1,5 mm <sup>2</sup> max. for types FXG)					
Mechanical life		1.000.000 operations (400.000 operations for types FTG)										
Compliance to Stds		IEC 947-4			VDE 0660		(IEC 947-5, VDE 0660 for types FXG)					
(1) Subtract differential from High Operating Point to obtain Low Operating Point.												

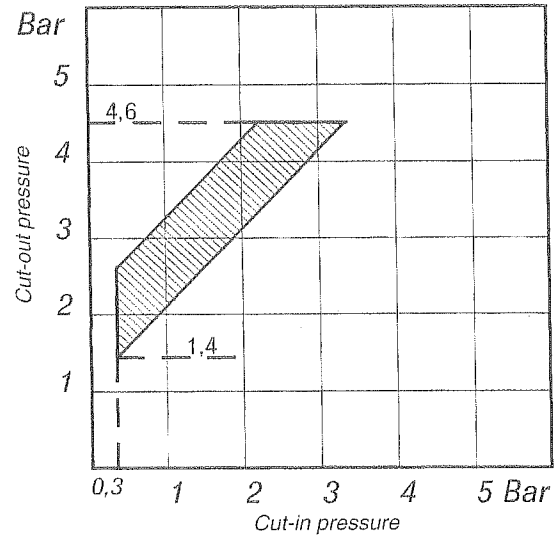
# Water Pump Pressure Switches

Type F

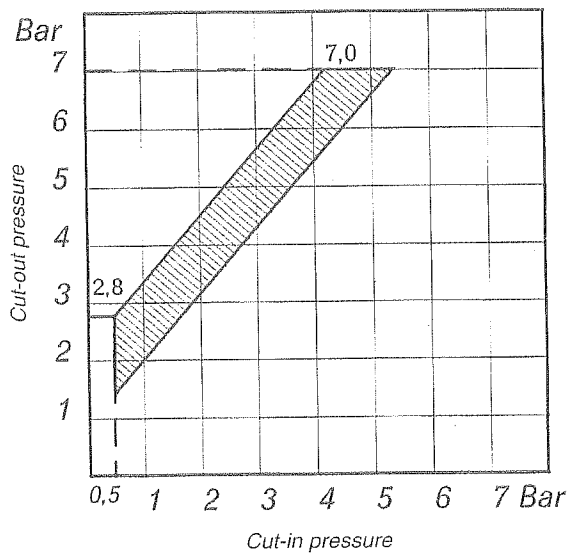
FTG-2/9



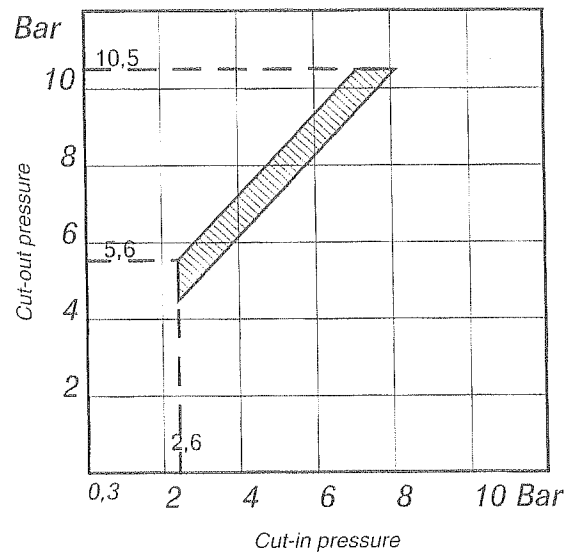
FTG-2/9, FXG-2



FYG-22, FXG-3



FYG-32, FXG-4



Dimension	A	B
FTG-2	96	23
FSG-2		
FTG-9	105	32
FSG-9		
FYG-22/32	94	21
FXG-2/3/4		

