










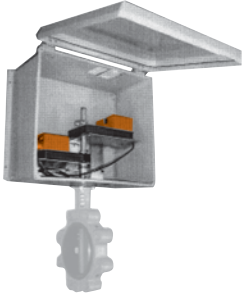

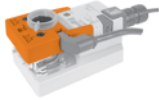
		NON-SPRING RETURN				ELECTRONIC FAIL-SAFE		SPRING RETURN
PROGRAMMING TOOLS		AM/AR	GM/GR	DR	SY	DK	GK	AF
	MFT-P Belimo MFT configuration software (V3.X) Includes: PC-Tool software (interface cables [ZTH US] not included)	•	•	•	•	•	•	•
INTERFACES, CABLES								
	ZTH US Handheld interface module that allows field programming	•	•	•	•	•	•	•
	ZK1-GEN Cable for use with ZTH US to connect to new generation non-spring return actuator via diagnostic/programming socket	•	•	•		•	•	
	ZK2-GEN Cable for use with ZTH US to connect with spring return and non-spring return actuators not equipped with diagnostic/programming socket	•	•					
	ZK6-GEN Cable for use with ZTH US to connect to SY actuator via RJ11 port				•			

		NON-SPRING RETURN		
BATTERY BACKUP		AM/AR	GM/GR/DR	SY
	NSV24 US Battery backup module	•	•	
	NSV-BAT 12VDC 1.2 AH battery (2 required)	•	•	
	EXT-NSV-B01-120 Battery backup system, SY1 - SY3 120 VAC, on/off actuators			•
	EXT-NSV-B02-120 Battery backup system, SY1 - SY3 120 VAC, MFT actuators			•
	EXT-NSV-B03-120 Battery backup system, SY4 - SY6 120 VAC, on/off actuators			•
	EXT-NSV-B04-120 Battery backup system, SY4 - SY6 120 VAC, MFT actuators			•
	EXT-NSV-B05-120 Battery backup system, SY7 - SY12 120 VAC, on/off actuators			•
	EXT-NSV-B06-120 Battery backup system, SY7 - SY12 120 VAC, MFT actuators			•
	EXT-NSV-B11-24 Battery backup system, SY1 24 VAC, on/off actuators			•
	EXT-NSV-B12-24 Battery backup system, SY1 24 VAC, MFT actuators			•
	EXT-NSV-B13-24 Battery backup system, SY2 - SY5 24 VAC, on/off actuators			•
	EXT-NSV-B14-24 Battery backup system, SY2 - SY5 24 VAC, MFT actuators			•
	EXT-NSV-B21-230 Battery backup system, SY1 - SY3 230 VAC, on/off actuators			•
	EXT-NSV-B22-230 Battery backup system, SY1 - SY3 230 VAC, MFT actuators			•
	EXT-NSV-B23-230 Battery backup system, SY4 - SY6 230 VAC, on/off actuators			•
	EXT-NSV-B24-230 Battery backup system, SY4 - SY6 230 VAC, MFT actuators			•
	EXT-NSV-B25-230 Battery backup system, SY7 - SY12 230 VAC, on/off actuators			•
	EXT-NSV-B26-230 Battery backup system, SY7 - SY12 230 VAC, MFT actuators			•

Valve Accessories

Butterfly Valves




WEATHER SHIELDS	NON-SPRING RETURN ACTUATORS				ELECTRONIC FAIL-SAFE	SPRING RETURN ACTUATORS
	AM	GM/GR	DR	SY		
	ZS-BFV-20* GM series for F6, F7 HD, HDU, VIC		•	•		•
	ZS-BFV-30* AF series for F6, F7 HD, HDU, VIC					•
	ZS-BFV-60* Dual GM series for F6 HD, HDU (4" - 6"), VIC		•			
	ZS-BFV-70* Dual AF series for F6 HD, HDU (2½" - 3"), VIC					•
	ZS-BFV-80* Dual AF series for F6 HD, HDU (4", 5"), VIC					•
	ZS-BFV-90* Dual AF/GM series for F7 HD, HDU below 4" (specify valve size), VIC		•			•
ELECTRIC DISCONNECT						
	HOA-120V Local electric disconnect SY2-SY12; 2 position - 110/230V				•	
	HOA-120VMFT Local electric disconnect SY2-SY12; modulating - 110/230V				•	
	HOA-24V Local electric disconnect SY2-SY12; 2 position - 24V				•	
	HOA-24VMFT Local electric disconnect SY2-SY12; modulating - 24V				•	
AUXILIARY SWITCHES & POTENTIOMETERS						
	SY-1000-FB01 1000 Ω feedback potentiometer. 2 Position, factory installed option only				•	
	SY-1000-FB02 1000 Ω feedback potentiometer. Modulating, factory installed option only (modulating models SYx...-P, -SR or -MFT)				•	
	S1A Auxiliary switch - 1x SPDT, 3A (0.5A inductive) @ 250 VAC	•	•	•		
	S2A Auxiliary switch - 2x SPDT, 3A (0.5A inductive) @ 250 VAC	•	•	•		
	P140A GR Feedback potentiometer 140 Ω	•	•	•		
	P500A GR Feedback potentiometer 500 Ω	•	•	•		
	P1000A GR Feedback potentiometer 1000 Ω	•	•	•		
	P2800A GR Feedback potentiometer 2800 Ω	•	•	•		
	P5000A GR Feedback potentiometer 5000 Ω	•	•	•		
	P10000A GR Feedback potentiometer 10000 Ω	•	•	•		
HOUSING						
	ZS-T Terminal cover for NEMA 2 (-T models)				•	

*Cannot be used with direct mount actuators.

MANUAL HANDLES



		VALVE
		HDU/HD
	F650HD+HND01 2" HD series valve with manual handle ductile iron, 200 psi close-off, C _v 115	•
	F665HD+HND01 2½" HD series valve with manual handle ductile iron, 200 psi close-off, C _v 196	•
	F680HD+HND01 3" HD series valve with manual handle ductile iron, 200 psi close-off, C _v 302	•
	F6100HD+HND02 4" HD series valve with manual handle ductile iron, 200 psi close-off, C _v 600	•
	F6125HD+HND02 5" HD series valve with manual handle ductile iron, 200 psi close-off, C _v 1022	•
	F6150HD+HND02 6" HD series valve with manual handle ductile iron, 200 psi close-off, C _v 1579	•

GEAR OPERATORS

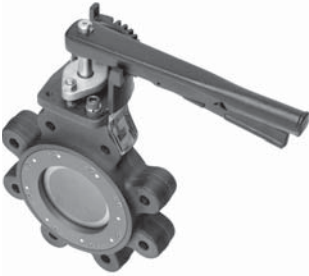



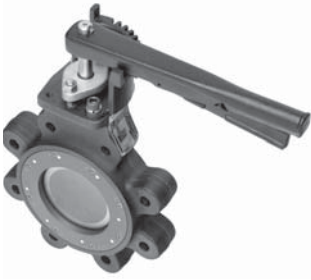

	F650HD+GW01 2" HD series valve with manual gear operator ductile iron, 200 psi close-off, C _v 115	•
	F665HD+GW01 2½" HD series valve with manual gear operator ductile iron, 200 psi close-off, C _v 196	•
	F680HD+GW01 3" HD series valve with manual gear operator ductile iron, 200 psi close-off, C _v 302	•
	F6100HD+GW02 4" HD series valve with manual gear operator ductile iron, 200 psi close-off, C _v 600	•
	F6125HD+GW02 5" HD series valve with manual gear operator ductile iron, 200 psi close-off, C _v 1022	•
	F6150HD+GW02 6" HD series valve with manual gear operator ductile iron, 200 psi close-off, C _v 1579	•
	F6200HD+GW03 8" HD series valve with manual gear operator ductile iron, 200 psi close-off, C _v 3136	•
	F6250HD+GW04 10" HD series valve with manual gear operator ductile iron, 200 psi close-off, C _v 5340	•
	F6300HD+GW04 12" HD series valve with manual gear operator ductile iron, 200 psi close-off, C _v 8250	•
	F6350HD+GW04 14" HD series valve with manual gear operator ductile iron, 150 psi close-off, C _v 11917	•
	F6400HD+GW05 16" HD series valve with manual gear operator ductile iron, 150 psi close-off, C _v 16388	•
	F6450HD+GW06 18" HD series valve with manual gear operator ductile iron, 150 psi close-off, C _v 21705	•
	F6500HD+GW07 20" HD series valve with manual gear operator ductile iron, 150 psi close-off, C _v 27908	•
	F6600HD+GW08 24" HD series valve with manual gear operator ductile iron, 150 psi close-off, C _v 43116	•
	F6750HD+GW09 30" HD series valve with manual gear operator ductile iron, 150 psi close-off, C _v 73426	•

Valve Accessories

Butterfly Valves



MANUAL HANDLES		VALVE 150SHP
	F650-150SHP+HND05 2" SHP series valve with manual handle cast steel, ANSI 150 close-off limitations, C _V 102	•
	F665-150SHP+HND05 2½" SHP series valve with manual handle cast steel, ANSI 150 close-off limitations, C _V 146	•
	F680-150SHP+HND06 3" SHP series valve with manual handle cast steel, ANSI 150 close-off limitations, C _V 228	•
	F6100-150SHP+HND06 4" SHP series valve with manual handle cast steel, ANSI 150 close-off limitations, C _V 451	•
	F6125-150SHP+HND07 5" SHP series valve with manual handle cast steel, ANSI 150 close-off limitations, C _V 714	•
	F6150-150SHP+HND07 6" SHP series valve with manual handle cast steel, ANSI 150 close-off limitations, C _V 1103	•
	F6200-150SHP+HND08 8" SHP series valve with manual handle cast steel, ANSI 150 close-off limitations, C _V 2064	•
	GEAR OPERATORS	
	F650-150SHP+GW10 2" SHP series valve with manual gear operator cast steel, ANSI 150 close-off limitations, C _V 102	•
	F665-150SHP+GW10 2½" SHP series valve with manual gear operator cast steel, ANSI 150 close-off limitations, C _V 146	•
	F680-150SHP+GW11 3" SHP series valve with manual gear operator cast steel, ANSI 150 close-off limitations, C _V 228	•
	F6100-150SHP+GW11 4" SHP series valve with manual gear operator cast steel, ANSI 150 close-off limitations, C _V 451	•
	F6125-150SHP+GW12 5" SHP series valve with manual gear operator cast steel, ANSI 150 close-off limitations, C _V 714	•
	F6150-150SHP+GW12 6" SHP series valve with manual gear operator cast steel, ANSI 150 close-off limitations, C _V 1103	•
	F6200-150SHP+GW13 8" SHP series valve with manual gear operator cast steel, ANSI 150 close-off limitations, C _V 2064	•
	F6250-150SHP+GW15 10" SHP series valve with manual gear operator cast steel, ANSI 150 close-off limitations, C _V 3517	•
	F6300-150SHP+GW17 12" SHP series valve with manual gear operator cast steel, ANSI 150 close-off limitations, C _V 4837	•
	F6350-150SHP+GW19 14" SHP series valve with manual gear operator cast steel, ANSI 150 close-off limitations, C _V 6857	•
	F6400-150SHP+GW21 16" SHP series valve with manual gear operator cast steel, ANSI 150 close-off limitations, C _V 9287	•
	F6450-150SHP+GW23 18" SHP series valve with manual gear operator cast steel, ANSI 150 close-off limitations, C _V 11500	•
	F6500-150SHP+GW25 20" SHP series valve with manual gear operator cast steel, ANSI 150 close-off limitations, C _V 14420	•
	F6600-150SHP+GW27 24" SHP series valve with manual gear operator cast steel, ANSI 150 close-off limitations, C _V 22050	•

MANUAL HANDLES		VALVE
	F650-300SHP+HND05 2" SHP series valve with manual handle cast steel, ANSI 300 close-off limitations, C _v 100	•
	F665-300SHP+HND05 2½" SHP series valve with manual handle cast steel, ANSI 300 close-off limitations, C _v 143	•
	F680-300SHP+HND06 3" SHP series valve with manual handle cast steel, ANSI 300 close-off limitations, C _v 223	•
	F6100-300SHP+HND06 4" SHP series valve with manual handle cast steel, ANSI 300 close-off limitations, C _v 435	•
	F6125-300SHP+HND07 5" SHP series valve with manual handle cast steel, ANSI 300 close-off limitations, C _v 688	•
	F6150-300SHP+HND08 6" SHP series valve with manual handle cast steel, ANSI 300 close-off limitations, C _v 1041	•
GEAR OPERATORS		
	F650-300SHP+GW10 2" SHP series valve with manual gear operator cast steel, ANSI 300 close-off limitations, C _v 100	•
	F665-300SHP+GW10 2½" SHP series valve with manual gear operator cast steel, ANSI 300 close-off limitations, C _v 143	•
	F680-300SHP+GW11 3" SHP series valve with manual gear operator cast steel, ANSI 300 close-off limitations, C _v 223	•
	F6100-300SHP+GW11 4" SHP series valve with manual gear operator cast steel, ANSI 300 close-off limitations, C _v 435	•
	F6125-300SHP+GW12 5" SHP series valve with manual gear operator cast steel, ANSI 300 close-off limitations, C _v 688	•
	F6150-300SHP+GW13 6" SHP series valve with manual gear operator cast steel, ANSI 300 close-off limitations, C _v 1041	•
	F6200-300SHP+GW14 8" SHP series valve with manual gear operator cast steel, ANSI 300 close-off limitations, C _v 1911	•
	F6250-300SHP+GW16 10" SHP series valve with manual gear operator cast steel, ANSI 300 close-off limitations, C _v 3194	•
	F6300-300SHP+GW18 12" SHP series valve with manual gear operator cast steel, ANSI 300 close-off limitations, C _v 4428	•
	F6350-300SHP+GW20 14" SHP series valve with manual gear operator cast steel, ANSI 300 close-off limitations, C _v 5702	•
	F6400-300SHP+GW22 16" SHP series valve with manual gear operator cast steel, ANSI 300 close-off limitations, C _v 8243	•
	F6450-300SHP+GW24 18" SHP series valve with manual gear operator cast steel, ANSI 300 close-off limitations, C _v 9712	•
	F6500-300SHP+GW26 20" SHP series valve with manual gear operator cast steel, ANSI 300 close-off limitations, C _v 10658	•
	F6600-300SHP+GW28 24" SHP series valve with manual gear operator cast steel, ANSI 300 close-off limitations, C _v 16205	•