

Solenoid valves VZWF, force pilot operated

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Solenoid valves VZWF, force pilot operated

Key features and overview

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Function

Normally closed solenoid valve with diaphragm and forced lifting. When the solenoid is energised, the differential pressure from the secondary side of the diaphragm is reduced via the servo hole. The effective differential pressure lifts

the diaphragm away from the valve seat. If there is no differential pressure, the diaphragm is lifted directly by the solenoid. The valve opens and closes without a differential pressure between the inlet and outlet.

General

- N- Connecting thread
G $\frac{1}{4}$... G2
-  - Flow rate Kv
1.8 ... 28 m³/h

Application

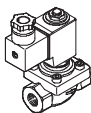
- Suitable for closed applications such as cooling or filling systems
- Vacuum
- Liquid gas
- Bottling systems

Design

- Diaphragm valves
- Forced lifting of the valve diaphragm
- 2/2-way valve, normally closed

Advantages

- Choice of sealing materials for different fields of applications
- Medium pressure 0 bar or higher

Version	Type	Process valve connection	Nominal size (DN)	Process valve nominal pressure (PN)	→ Page/Internet
	VZWF-...	G $\frac{1}{4}$	13.5	40	4
		G $\frac{3}{8}$	13.5		
		G $\frac{1}{2}$	13.5		
		G $\frac{3}{4}$	27.5		
		G1	27.5		
	VZWF-...	G114	40	40	8
		G112	40		
		G2	50		

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Type codes

		VZWF	-	B	-	L	-	M22C	-	G14	-	135	-	V	-	2AP4	-	10	-	R1
Type																				
VZWF	Solenoid valve, force pilot operated																			
Product version																				
	Standard																			
B	Optimised function																			
Type of directional control valve																				
L	In-line valve																			
Valve function																				
M22C	2/2-way valve, normally closed																			
Process valve connection																				
G14	Thread G1/4																			
G38	Thread G3/8																			
G12	Thread G1/2																			
G34	Thread G3/4																			
G1	Thread G1																			
G114	Thread G1 1/4																			
G112	Thread G1 1/2																			
G2	Thread G2																			
Nominal size (DN)																				
135	13.5 mm																			
275	27.5 mm																			
400	40 mm																			
500	50 mm																			
Sealing material																				
	Standard (NBR)																			
E	EPDM																			
V	FPM																			
Nominal operating voltage																				
1	24 V DC																			
2A	110 V AC/50-60 Hz																			
3A	230 V AC/50-60 Hz																			
Electrical connection																				
P4	Plug socket, 3-pin																			
Operating pressure																				
6	Max. 6 bar																			
10	Max. 10 bar																			
Corrosion protection																				
	Standard (brass)																			
R1	Stainless steel																			

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Technical data

Function



-  - Flow rate Kv
1.8 ... 11 m³/h

-N- Connecting thread
G¼ ... G1



General technical data					
Process valve connection	G¼	G¾	G½	G¾	G1
Nominal size (DN)	13.5	13.5	13.5	27.5	27.5
Valve function	2/2-way, single solenoid, closed				
Design	Diaphragm valve, force pilot operated				
Type of mounting	In-line installation				
Actuation type	Electric				
Manual override	None				
Mounting position	Solenoid vertical				
Sealing principle	Soft				
Direction of flow	Non-reversible				
Max. viscosity [mm²/s]	22				
Protection class	IP 65				
Product weight [g]	1,000			1,500	

Operating and environmental conditions					
Process valve connection	G¼	G¾	G½	G¾	G1
Switching time on [ms]	130			275	
Switching time off [ms]	180			290	
Standard nominal flow rate [l/min]	1,920	2,350	2,660	8,020	11,750
Flow rate [m³/h]	1.8	2.2	2.5	7.5	11
Operating pressure [bar]	0 ... 10			0 ... 6	
Process valve nominal pressure (PN)	40				
Differential pressure [bar]	0				
Operating medium with NBR seal (standard)	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]				
	Inert gases				
	Cold water				
	Further media upon request				
Operating medium with EPDM seal	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]				
	Inert gases				
	Water				
	Further media upon request				
Operating medium with FPM seal	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]				
	Inert gases				
	Mineral oil				
	Neutral liquids				
	Water				
	Further media upon request				
Ambient temperature [°C]	-10 ... +35 °C				
Temperature of medium [°C]	-10 ... +80 °C				
Leak rate to EN 12266-1	A				
Corrosion resistance class					
CRC ¹⁾ Brass	1				
CRC ²⁾ Stainless steel	3				

1) Corrosion resistance class 1 according to Festo standard 940 070

Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

2) Corrosion resistance class 3 according to Festo standard 940 070

Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

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Technical data

Materials		
Solenoid valves		Material number
1 Housing	Brass casting	CW617N
	Stainless steel casting	1.4581
2 Screws	High-alloy stainless steel	1.4301
3 Seals	NBR, FPM, EPDM	–
– Note on materials	Contains PWIS (paint-wetting impairment substances), RoHS-compliant	

Electrical data						
			VZWF- ... 1	VZWF- ... 2A	VZWF- ... 3A	
Electrical connection			Plug to EN 175301-803 type A, square design			
CE mark as per EU Pressure Equipment Directive			–	Yes	Yes	
Coil characteristics	Direct current DC	[V]	24	–	–	
	Alternating current AC	[V]	–	110	230	
		[W]	11	–	–	
	Switching power	[VA]	–	19	18	
	Holding power	[VA]	–	16	15	
		[Hz]	–	50, 60	50, 60	
Coil characteristics	Direct current DC	[V]	24	–	–	
	Alternating current AC	[V]	–	110	230	
		[W]	30	–	–	
	Switching power	[VA]	–	30	30	
	Holding power	[VA]	–	30	30	
		[Hz]	–	50, 60	50, 60	
Permissible voltage fluctuations		[%]	±10			

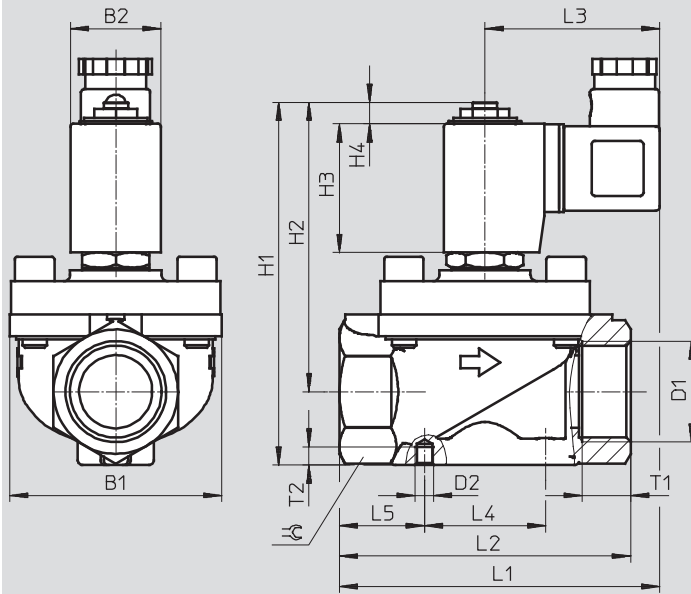
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Technical data

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Dimensions

Download CAD Data → www.festo.com/us/cad

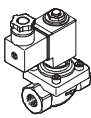


	B1	B2	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	T1	T2	≙C
VZWF-B-L-M22C-G14-135-...	48	30	G $\frac{1}{4}$	M4	101	85.6	42	7	92	67	58	25	21	12	4	27
VZWF-B-L-M22C-G14-135-...-R1	44	30	G $\frac{1}{4}$	M4	101	85.6	42	7	94	67	58	25	21	12	4	27
VZWF-B-L-M22C-G38-135-...	48	30	G $\frac{3}{8}$	M4	101	85.6	42	7	92	67	58	25	21	12	4	27
VZWF-B-L-M22C-G38-135-...-R1	44	30	G $\frac{3}{8}$	M4	101	85.6	42	7	94	67	58	25	21	12	4	27
VZWF-B-L-M22C-G12-135-...	48	30	G $\frac{1}{2}$	M4	101	85.6	42	7	92	67	58	25	21	12	4	27
VZWF-B-L-M22C-G12-135-...-R1	44	30	G $\frac{1}{2}$	M4	101	85.6	42	7	94	67	58	25	21	12	4	27
VZWF-B-L-M22C-G34-275-...	70	30	G $\frac{3}{4}$	M6	120	95.4	42	7	106	96	58	40	28	16	6	41
VZWF-B-L-M22C-G1-275-...	70	30	G1	M6	120	95.4	42	7	106	96	58	40	28	16	6	41

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Technical data

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Ordering data – Solenoid valve VZWF					
	Process valve connection	Brass housing		Stainless steel casting housing	
		Part No.	Type	Part No.	Type
	G $\frac{1}{4}$	1492110	VZWF-B-L-M22C-G14-135-1P4-10	1492118	VZWF-B-L-M22C-G14-135-1P4-10-R1
		1492126	VZWF-B-L-M22C-G14-135-E-1P4-10	1492134	VZWF-B-L-M22C-G14-135-E-1P4-10-R1
		1492142	VZWF-B-L-M22C-G14-135-V-1P4-10	1492150	VZWF-B-L-M22C-G14-135-V-1P4-10-R1
		1492206	VZWF-B-L-M22C-G14-135-2AP4-10	1492214	VZWF-B-L-M22C-G14-135-2AP4-10-R1
		1492222	VZWF-B-L-M22C-G14-135-E-2AP4-10	1492230	VZWF-B-L-M22C-G14-135-E-2AP4-10-R1
		1492238	VZWF-B-L-M22C-G14-135-V-2AP4-10	1492246	VZWF-B-L-M22C-G14-135-V-2AP4-10-R1
		1492302	VZWF-B-L-M22C-G14-135-3AP4-10	1492310	VZWF-B-L-M22C-G14-135-3AP4-10-R1
		1492318	VZWF-B-L-M22C-G14-135-E-3AP4-10	1492326	VZWF-B-L-M22C-G14-135-E-3AP4-10-R1
		1492334	VZWF-B-L-M22C-G14-135-V-3AP4-10	1492342	VZWF-B-L-M22C-G14-135-V-3AP4-10-R1
	G $\frac{3}{8}$	1492111	VZWF-B-L-M22C-G38-135-1P4-10	1492119	VZWF-B-L-M22C-G38-135-1P4-10-R1
		1492127	VZWF-B-L-M22C-G38-135-E-1P4-10	1492135	VZWF-B-L-M22C-G38-135-E-1P4-10-R1
		1492143	VZWF-B-L-M22C-G38-135-V-1P4-10	1492151	VZWF-B-L-M22C-G38-135-V-1P4-10-R1
		1492207	VZWF-B-L-M22C-G38-135-2AP4-10	1492215	VZWF-B-L-M22C-G38-135-2AP4-10-R1
		1492223	VZWF-B-L-M22C-G38-135-E-2AP4-10	1492231	VZWF-B-L-M22C-G38-135-E-2AP4-10-R1
		1492239	VZWF-B-L-M22C-G38-135-V-2AP4-10	1492247	VZWF-B-L-M22C-G38-135-V-2AP4-10-R1
		1492303	VZWF-B-L-M22C-G38-135-3AP4-10	1492311	VZWF-B-L-M22C-G38-135-3AP4-10-R1
		1492319	VZWF-B-L-M22C-G38-135-E-3AP4-10	1492327	VZWF-B-L-M22C-G38-135-E-3AP4-10-R1
		1492335	VZWF-B-L-M22C-G38-135-V-3AP4-10	1492343	VZWF-B-L-M22C-G38-135-V-3AP4-10-R1
	G $\frac{1}{2}$	1492112	VZWF-B-L-M22C-G12-135-1P4-10	1492120	VZWF-B-L-M22C-G12-135-1P4-10-R1
		1492128	VZWF-B-L-M22C-G12-135-E-1P4-10	1492136	VZWF-B-L-M22C-G12-135-E-1P4-10-R1
		1492144	VZWF-B-L-M22C-G12-135-V-1P4-10	1492152	VZWF-B-L-M22C-G12-135-V-1P4-10-R1
		1492208	VZWF-B-L-M22C-G12-135-2AP4-10	1492216	VZWF-B-L-M22C-G12-135-2AP4-10-R1
		1492224	VZWF-B-L-M22C-G12-135-E-2AP4-10	1492232	VZWF-B-L-M22C-G12-135-E-2AP4-10-R1
		1492240	VZWF-B-L-M22C-G12-135-V-2AP4-10	1492248	VZWF-B-L-M22C-G12-135-V-2AP4-10-R1
		1492304	VZWF-B-L-M22C-G12-135-3AP4-10	1492312	VZWF-B-L-M22C-G12-135-3AP4-10-R1
		1492320	VZWF-B-L-M22C-G12-135-E-3AP4-10	1492328	VZWF-B-L-M22C-G12-135-E-3AP4-10-R1
		1492336	VZWF-B-L-M22C-G12-135-V-3AP4-10	1492344	VZWF-B-L-M22C-G12-135-V-3AP4-10-R1
	G $\frac{3}{4}$	1492113	VZWF-B-L-M22C-G34-275-1P4-6	1492121	VZWF-B-L-M22C-G34-275-1P4-6-R1
		1492129	VZWF-B-L-M22C-G34-275-E-1P4-6	1492137	VZWF-B-L-M22C-G34-275-E-1P4-6-R1
		1492145	VZWF-B-L-M22C-G34-275-V-1P4-6	1492153	VZWF-B-L-M22C-G34-275-V-1P4-6-R1
		1492209	VZWF-B-L-M22C-G34-275-2AP4-6	1492217	VZWF-B-L-M22C-G34-275-2AP4-6-R1
		1492225	VZWF-B-L-M22C-G34-275-E-2AP4-6	1492233	VZWF-B-L-M22C-G34-275-E-2AP4-6-R1
		1492241	VZWF-B-L-M22C-G34-275-V-2AP4-6	1492249	VZWF-B-L-M22C-G34-275-V-2AP4-6-R1
		1492305	VZWF-B-L-M22C-G34-275-3AP4-6	1492313	VZWF-B-L-M22C-G34-275-3AP4-6-R1
		1492321	VZWF-B-L-M22C-G34-275-E-3AP4-6	1492329	VZWF-B-L-M22C-G34-275-E-3AP4-6-R1
		1492337	VZWF-B-L-M22C-G34-275-V-3AP4-6	1492345	VZWF-B-L-M22C-G34-275-V-3AP4-6-R1
	G1	1492114	VZWF-B-L-M22C-G1-275-1P4-6	1492122	VZWF-B-L-M22C-G1-275-1P4-6-R1
		1492130	VZWF-B-L-M22C-G1-275-E-1P4-6	1492138	VZWF-B-L-M22C-G1-275-E-1P4-6-R1
		1492146	VZWF-B-L-M22C-G1-275-V-1P4-6	1492154	VZWF-B-L-M22C-G1-275-V-1P4-6-R1
		1492210	VZWF-B-L-M22C-G1-275-2AP4-6	1492218	VZWF-B-L-M22C-G1-275-2AP4-6-R1
		1492226	VZWF-B-L-M22C-G1-275-E-2AP4-6	1492234	VZWF-B-L-M22C-G1-275-E-2AP4-6-R1
		1492242	VZWF-B-L-M22C-G1-275-V-2AP4-6	1492250	VZWF-B-L-M22C-G1-275-V-2AP4-6-R1
		1492306	VZWF-B-L-M22C-G1-275-3AP4-6	1492314	VZWF-B-L-M22C-G1-275-3AP4-6-R1
		1492322	VZWF-B-L-M22C-G1-275-E-3AP4-6	1492330	VZWF-B-L-M22C-G1-275-E-3AP4-6-R1
		1492338	VZWF-B-L-M22C-G1-275-V-3AP4-6	1492346	VZWF-B-L-M22C-G1-275-V-3AP4-6-R1

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Technical data

Function



-  - Flow rate Kv
20 ... 28 m³/h

-N- Connecting thread
G1¼ ... G2



General technical data			
Process valve connection	G114	G112	G2
Nominal size (DN)	40	40	50
Valve function	2/2-way, single solenoid, closed		
Design	Diaphragm valve, force pilot operated		
Type of mounting	In-line installation		
Actuation type	Electric		
Manual override	None		
Mounting position	Solenoid vertical		
Sealing principle	Soft		
Direction of flow	Non-reversible		
Max. viscosity [mm²/s]	22		
Protection class	IP 65		
Product weight [g]	4,500		6,500

Operating and environmental conditions			
Process valve connection	G114	G112	G2
Switching time on [ms]	620		1,220
Switching time off [ms]	1,140		2,140
Standard nominal flow rate [l/min]	21,370	23,500	29,900
Flow rate [m³/h]	20	22.5	28
Operating pressure [bar]	0 ... 10		0 ... 6
Process valve nominal pressure (PN)	40		
Differential pressure [bar]	0		
Operating medium with NBR seal (standard)	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]		
	Inert gases		
	Cold water		
	Further media upon request		
Operating medium with EPDM seal	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]		
	Inert gases		
	Water		
	Further media upon request		
Operating medium with FPM seal	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]		
	Inert gases		
	Mineral oil		
	Neutral liquids		
	Water		
	Further media upon request		
Ambient temperature [°C]	-10 ... +35 °C		
Temperature of medium [°C]	-10 ... +80 °C		
Leak rate to EN 12266-1	A		
Corrosion resistance class			
CRC ¹⁾ Brass	1		
CRC ²⁾ Stainless steel	3		

1) Corrosion resistance class 1 according to Festo standard 940 070

Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

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Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

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Materials		
Solenoid valves		Material number
1 Housing	Brass casting	CW617N
	Stainless steel casting	1.4581
2 Screws	High-alloy stainless steel	1.4301
3 Seals	NBR, FPM, EPDM	–
– Note on materials	Contains PWIS (paint-wetting impairment substances), RoHS-compliant	

Electrical data						
			VZWF- ... 1	VZWF- ... 2A	VZWF- ... 3A	
Electrical connection			Plug to EN 175301-803 type A, square design			
CE mark as per EU Pressure Equipment Directive			–	Yes	Yes	
Coil characteristics	Direct current DC	[V]	24	–	–	
	Alternating current AC	[V]	–	110	230	
		[W]	11	–	–	
	Switching power	[VA]	–	19	18	
	Holding power	[VA]	–	16	15	
		[Hz]	–	50, 60	50, 60	
Coil characteristics	Direct current DC	[V]	24	–	–	
	Alternating current AC	[V]	–	110	230	
		[W]	30	–	–	
	Switching power	[VA]	–	30	30	
	Holding power	[VA]	–	30	30	
		[Hz]	–	50, 60	50, 60	
Permissible voltage fluctuations		[%]	±10			

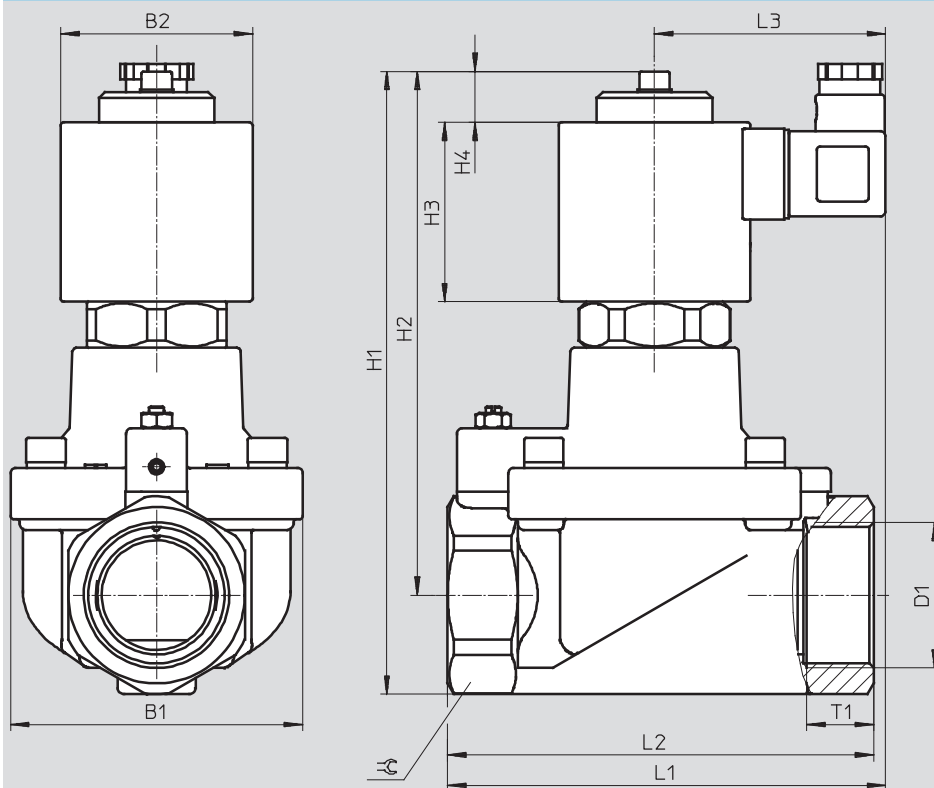
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Technical data

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Dimensions

Download CAD data → www.festo.com/en/engineering

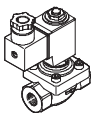


	B1	B2	D1	H1	H2	H3	H4	L1	L2	L3	T1	⌀
VZWF-L-M22C-G114-400-...	96	63	G1¼	205	172.2	59	17	148	140	76	22	58
VZWF-L-M22C-G112-400-...	96	63	G1½	205	172.2	59	17	148	140	76	22	58
VZWF-L-M22C-G2-500-...	112	63	G2	218	178.6	59	17	159	168	76	25	70

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Ordering data – Solenoid valve VZWF					
	Process valve connection	Brass housing		Stainless steel casting housing	
		Part No.	Type	Part No.	Type
	G114	1492115	VZWF-L-M22C-G114-400-1P4-10	1492123	VZWF-L-M22C-G114-400-1P4-10-R1
		1492131	VZWF-L-M22C-G114-400-E-1P4-10	1492139	VZWF-L-M22C-G114-400-E-1P4-10-R1
		1492147	VZWF-L-M22C-G114-400-V-1P4-10	1492155	VZWF-L-M22C-G114-400-V-1P4-10-R1
		1492211	VZWF-L-M22C-G114-400-2AP4-10	1492219	VZWF-L-M22C-G114-400-2AP4-10-R1
		1492227	VZWF-L-M22C-G114-400-E-2AP4-10	1492235	VZWF-L-M22C-G114-400-E-2AP4-10-R1
		1492243	VZWF-L-M22C-G114-400-V-2AP4-10	1492251	VZWF-L-M22C-G114-400-V-2AP4-10-R1
		1492307	VZWF-L-M22C-G114-400-3AP4-10	1492315	VZWF-L-M22C-G114-400-3AP4-10-R1
		1492323	VZWF-L-M22C-G114-400-E-3AP4-10	1492331	VZWF-L-M22C-G114-400-E-3AP4-10-R1
		1492339	VZWF-L-M22C-G114-400-V-3AP4-10	1492347	VZWF-L-M22C-G114-400-V-3AP4-10-R1
	G112	1492116	VZWF-L-M22C-G112-400-1P4-10	1492124	VZWF-L-M22C-G112-400-1P4-10-R1
		1492132	VZWF-L-M22C-G112-400-E-1P4-10	1492140	VZWF-L-M22C-G112-400-E-1P4-10-R1
		1492148	VZWF-L-M22C-G112-400-V-1P4-10	1492156	VZWF-L-M22C-G112-400-V-1P4-10-R1
		1492212	VZWF-L-M22C-G112-400-2AP4-10	1492220	VZWF-L-M22C-G112-400-2AP4-10-R1
		1492228	VZWF-L-M22C-G112-400-E-2AP4-10	1492236	VZWF-L-M22C-G112-400-E-2AP4-10-R1
		1492244	VZWF-L-M22C-G112-400-V-2AP4-10	1492252	VZWF-L-M22C-G112-400-V-2AP4-10-R1
		1492308	VZWF-L-M22C-G112-400-3AP4-10	1492316	VZWF-L-M22C-G112-400-3AP4-10-R1
		1492324	VZWF-L-M22C-G112-400-E-3AP4-10	1492333	VZWF-L-M22C-G112-400-E-3AP4-10-R1
		1492340	VZWF-L-M22C-G112-400-V-3AP4-10	1492348	VZWF-L-M22C-G112-400-V-3AP4-10-R1
	G2	1492117	VZWF-L-M22C-G2-500-1P4-6	1492125	VZWF-L-M22C-G2-500-1P4-6-R1
		1492133	VZWF-L-M22C-G2-500-E-1P4-6	1492141	VZWF-L-M22C-G2-500-E-1P4-6-R1
		1492149	VZWF-L-M22C-G2-500-V-1P4-6	1492157	VZWF-L-M22C-G2-500-V-1P4-6-R1
		1492213	VZWF-L-M22C-G2-500-2AP4-6	1492221	VZWF-L-M22C-G2-500-2AP4-6-R1
		1492229	VZWF-L-M22C-G2-500-E-2AP4-6	1492237	VZWF-L-M22C-G2-500-E-2AP4-6-R1
		1492245	VZWF-L-M22C-G2-500-V-2AP4-6	1492253	VZWF-L-M22C-G2-500-V-2AP4-6-R1
		1492309	VZWF-L-M22C-G2-500-3AP4-6	1492317	VZWF-L-M22C-G2-500-3AP4-6-R1
		1492325	VZWF-L-M22C-G2-500-E-3AP4-6	1492333	VZWF-L-M22C-G2-500-E-3AP4-6-R1
		1492341	VZWF-L-M22C-G2-500-V-3AP4-6	1492349	VZWF-L-M22C-G2-500-V-3AP4-6-R1

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