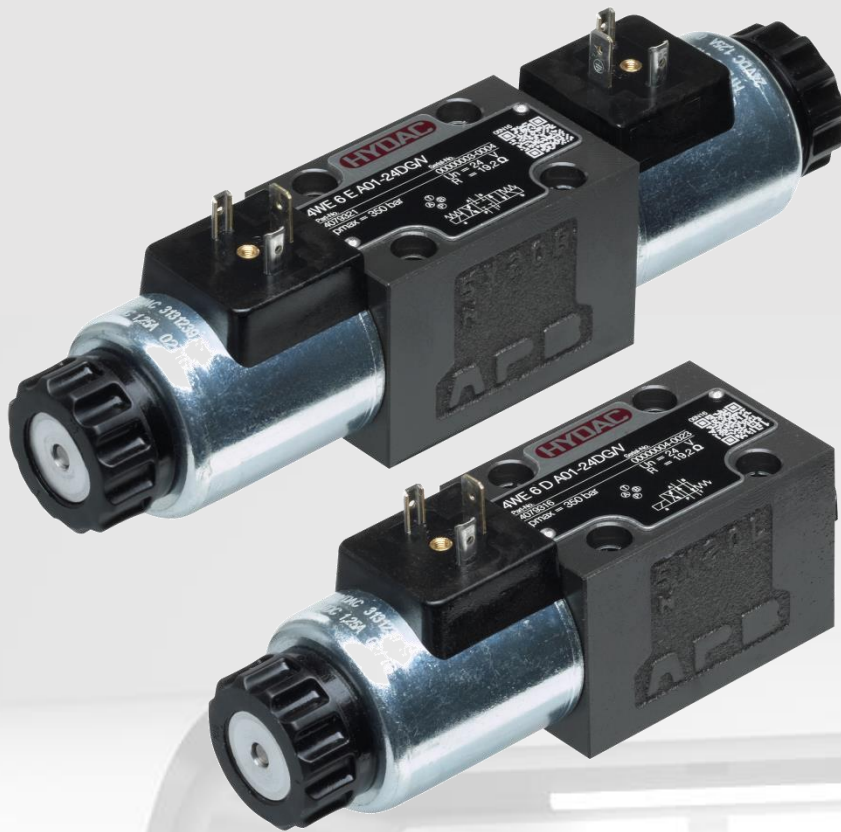


Sales information new series – NG6 directional valves



SPECIFICATIONS

- pmax. = 350 bar
- Qmax. = 80 l/min
- direct operated

KEY FIGURES

start of production: 01.01.2018

BACKGROUND

Hydac has decades of experience in system engineering. There is always the aim to use as many Hydac products as possible in these systems. Therefore, the range of used industrial valves increased continuously. At the same time, demand of industrial valves from external customers increased.

In order to be able to meet the needs of customers even better and to realize customer-specific requirements, a new production line has now been launched. As a part of this, our new valve series NG6 has been designed. Major advantages of this new series are higher maximum pressure and greater flexibility in the realization of application-specific valves.

In addition, a new valve series NG10 is also coming soon. Further information will follow.

MODIFICATIONS

As part of the modification, the series and the material number will change (the overview for all valves is attached).

4WE 6 J **S01**-24DG/V (material number: **6063148**)



4WE 6 J **A01**-24DG/V (material number: **4079356**)

ADVANTAGES

- new, state-of-the-art assembly line
- application-specific valves are now possible
- high vertical integration
- increased maximum pressure
- reduced nominal power consumption
- standard clamping length (improved interchangeability)
- traceability due to serial number and QR- Code
- all coil types are selectable

SYMBOLS

4/2- directional spool valve

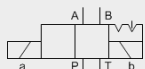
Spool type	Symbol	Intermediate position	Spool type	Symbol	Intermediate position
AE			HA		
BE			HB		
C			JA		
D			JB		
DT			KA		
DB			QA		
EA			UA		
EB			Y		
GA			YT		
GB					

4/3- directional spool valve

Spool type	Symbol	Intermediate position	Spool type	Symbol	Intermediate position
E			L		
F			M		
G			P		
H			Q		
J			R		
JR			U		
K					

Detent

...-OF



OPTIONS

available with different:

- manual overrides
- coil connectors
- voltages
- spool types

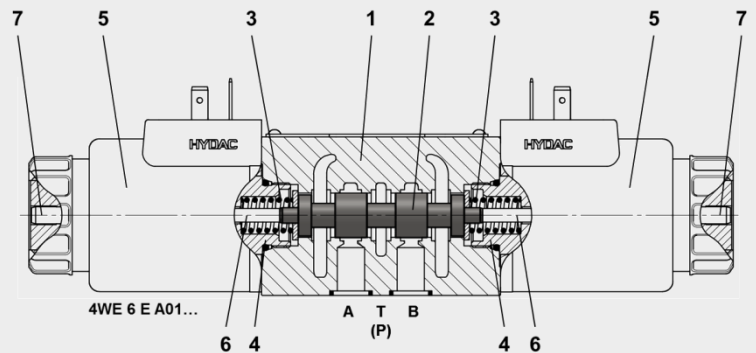
FUNCTION

The solenoid-operated directional-spool valves of the series 4WE 6 are used to control the volume flow. They consist of a valve body (1) with associated valve piston (2). Dependent on the type the valve is equipped with at least two return springs (3) and in each case one or two pole tubes (4) and solenoid coils (5).

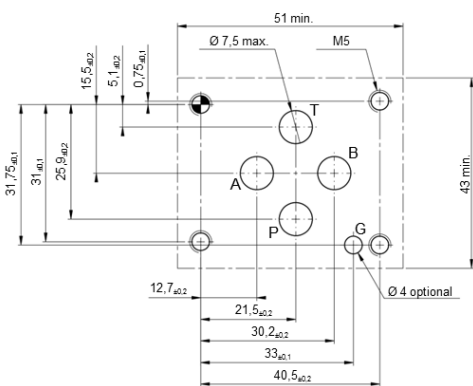
The hydraulic control of the valve is carried out through the actuation of the valve piston by the use of solenoids (5). Through the rod (6) the solenoid pushes the valve piston to the required position. This enables the volume flow directions between the appropriate connections.

When the solenoid is de-energised the appropriate spring resetting pushes the valve piston to its initial position.

The optional manual override (7) enables the valve operation without solenoid energisation.



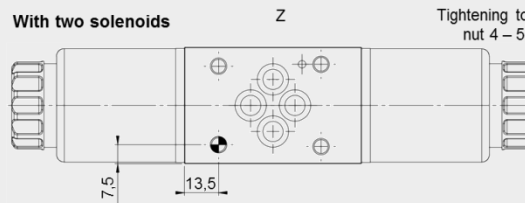
ISO 4401-03-02-02-0-05



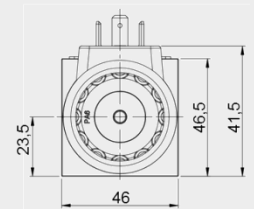
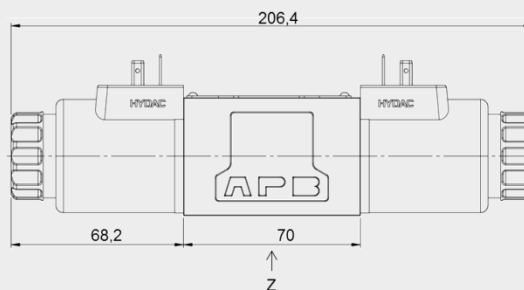
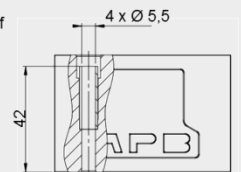
DIMENSIONS

Retaining screws:
(not contained in the scope of delivery)
DIN EN ISO 4762 – M5 x 50 – 10.9
tightening torque: 7 Nm

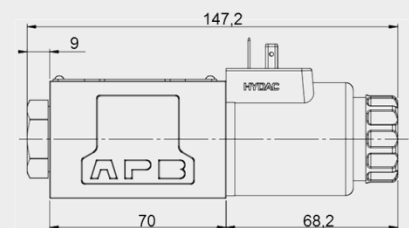
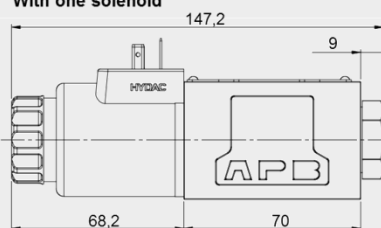
With two solenoids



Tightening torque of nut 4 – 5 Nm



With one solenoid



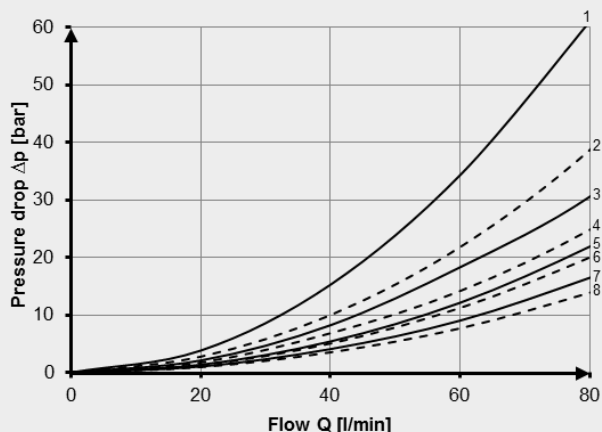
Valve with solenoid a

Valve with solenoid b

CHARACTERISTICS

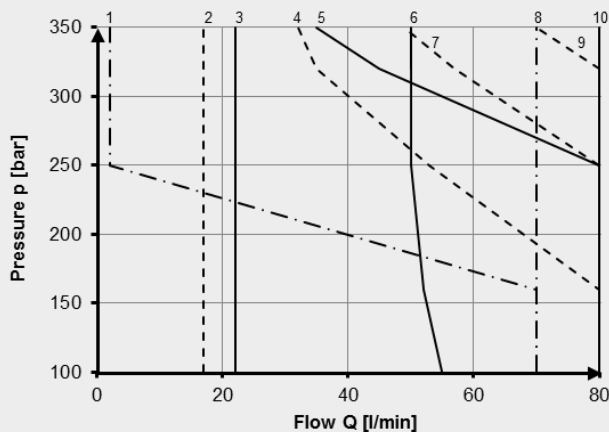
Pressure drop

Measured at $v = 35 \text{ mm}^2/\text{s}$, $T = 45^\circ\text{C}$



Power limit

Measured at $v = 30 \text{ mm}^2/\text{s}$, $T = 50^\circ\text{C}$



Allocation of performance curves with corresponding spool as shown in the table below.

Spool	Pressure drop					Operating limits
	P→A	B→T	P→B	A→T	P→T	
AE	-	-	7	7	-	1
BE	7	7	-	-	-	1
C	8	8	8	8	-	9
D	8	7	8	7	-	8
DB	3	6	3	6	-	2
D-OF	8	7	8	7	-	10
DT	8	-	7	-	-	-
E, EA, EB	7	7	7	7	-	10
F	6	6	6	6	-	3
G, GA, GB	1	1	1	1	4	6
H, HA, HB	8	8	8	8	4	10
J, JA, JB	7	7	7	7	-	5
JR	-	-	2	8	-	4
K, KA	8	7	7	7	-	10
L	7	7	7	8	-	10
M	8	5	8	5	-	10
P	6	6	6	6	-	3
Q, QA	7	7	7	7	-	10
R	-	-	3	6	-	7
U, UA	7	8	7	7	-	10
Y	7	8	7	8	-	8
YT	7	-	8	-	-	-

FRAGEN

For any queries, please contact your technical sales support or valves@hydac.com.

Best regards

Your Hydac Valve Team

APPENDIX

A 01 - SERIES (new)			S 01 - SERIES (old)		
DESCRIPTION	#		DESCRIPTION	#	
4WE 6 AE A01-12DG/V	4247946	AE	4WE 6 AE S01-12DG/V	3992275	
4WE 6 AE A01-24DG/N	4247945		4WE 6 AE S01-24DG/N	6106492	
4WE 6 AE A01-24DG/V	4169775		4WE 6 AE S01-24DG/V	6089358	
4WE 6 BE A01-24DG/N	4247947	BE	4WE 6 BE S01-24DG/N	6106494	
4WE 6 BE A01-24DG/V	4169780		4WE 6 BE S01-24DG/V	6074077	
4WE 6 C A01-0/V	4247948	C	4WE 6 C S01-0/V	3767659	
4WE 6 C A01-24DG/V	4079208		4WE 6 C S01-24DG/V	3774589	
4WE 6 D A01-0/V	4248021	D	4WE 6 D S01-0/V	6082922	
4WE 6 D A01-110AG/V	4248022		4WE 6 D S01-110AG/V	3939447	
4WE 6 D A01-12DG/N	4248023		4WE 6 D S01-12DG/N	6063579	
4WE 6 D A01-12DG/V	4188659		4WE 6 D S01-12DG/V	6063112	
4WE 6 D A01-205DG/N	4248127		4WE 6 D S01-205DG/N	6106499	
4WE 6 D A01-205DG/V	4194173		4WE 6 D S01-205DG/V	6075565	
4WE 6 D A01-230AG/V	4248128		4WE 6 D S01-230AG/V	3939446	
4WE 6 D A01-24DG/N	4248129		4WE 6 D S01-24DG/N	6071711	
4WE 6 D A01-24DG/V	4079316		4WE 6 D S01-24DG/V	6063118	
4WE 6 D A01-24DG/V/M2	4248132		4WE 6 D S01-24DG/V-SO	3810290	
4WE 6 D A01-24DO/V	4248130		4WE 6 D S01-24DO/V	3669375	
4WE 6 D A01-96DG/N	4248018		4WE 6 D S01-96DG/N	6106498	
4WE 6 D A01-96DG/V	4194170		4WE 6 D S01-96DG/V	6089015	
4WE 6 DB A01-0/V	4248175		DB	4WE 6 DB S01-0/V	3651431
4WE 6 DB A01-24DG/V	4211899			4WE 6 DB S01-24DG/V	3592549
4WE 6 D-OF A01-0/V	4248177		D-OF	4WE 6 D-OF S01-0/V	6084853
4WE 6 D-OF A01-12DG/N	4248181			4WE 6 D-OF S01-12DG/N	6106520
4WE 6 D-OF A01-12DG/V	4248183	4WE 6 D-OF S01-12DG/V		6089680	
4WE 6 D-OF A01-205DG/V	4248225	4WE 6 D-OF S01-205DG/V		3716692	
4WE 6 D-OF A01-24DG/N	4248184	4WE 6 D-OF S01-24DG/N		6082091	
4WE 6 D-OF A01-24DG/V	4079320	4WE 6 D-OF S01-24DG/V		6070560	
4WE 6 D-OF A01-24DO/V	4248226	4WE 6 D-OF S01-24DO/V		6106531	
4WE 6 D-OF A01-96DG/N	4248227	4WE 6 D-OF S01-96DG/N	3806855		
4WE 6 DT A01-24DG/N	4248228	DT	4WE 6 DT S01-24DG/N	6089357	
4WE 6 DT A01-24DG/V	4169781		4WE 6 DT S01-24DG/V	-	
4WE 6 E A01-24DG/V	4079321	E	4WE 6 E S01-24DG/V	6063120	
4WE 6 E A01-24DN/V	4248250		4WE 6 E S01-24DN/V	3821019	
4WE 6 E A01-24DO/V	4248251		4WE 6 E S01-24DO/V	6106533	
4WE 6 E A01-96DG/N	4248253		4WE 6 E S01-96DG/N	6078830	
4WE 6 E A01-96DG/V	4248252		4WE 6 E S01-96DG/V	6106535	

APPENDIX

A 01 - SERIES (new)			S 01 - SERIES (old)	
DESCRIPTION	#		DESCRIPTION	#
4WE 6 E A01-0/V	4248229	E	4WE 6 E S01-0/V	6082924
4WE 6 E A01-110AG/V	4248230		4WE 6 E S01-110AG/V	3939420
4WE 6 E A01-12DG/N	4248231		4WE 6 E S01-12DG/N	6071712
4WE 6 E A01-12DG/V	4188660		4WE 6 E S01-12DG/V	6063114
4WE 6 E A01-12DN/V	4248232		4WE 6 E S01-12DN/V	3821017
4WE 6 E A01-205DG/N	4248233		4WE 6 E S01-205DG/N	6106551
4WE 6 E A01-205DG/V	4248234		4WE 6 E S01-205DG/V	6075566
4WE 6 E A01-230AG/V	4248248		4WE 6 E S01-230AG/V	3939418
4WE 6 E A01-24DG/N	4248249		4WE 6 E S01-24DG/N	6071713
4WE 6 E A01-24DG/V	4079321		4WE 6 E S01-24DG/V	6063120
4WE 6 E A01-24DN/V	4248250		4WE 6 E S01-24DN/V	3821019
4WE 6 E A01-24DO/V	4248251		4WE 6 E S01-24DO/V	6106533
4WE 6 E A01-96DG/N	4248253		4WE 6 E S01-96DG/N	6078830
4WE 6 E A01-96DG/V	4248252		4WE 6 E S01-96DG/V	6106535
4WE 6 EA A01-0/V	4248285		EA	4WE 6 EA S01-0/V
4WE 6 EA A01-110AG/V	4248281	4WE 6 EA S01-110AG/V		3939449
4WE 6 EA A01-12DG/N	4248283	4WE 6 EA S01-12DG/N		6071714
4WE 6 EA A01-12DG/V	4248282	4WE 6 EA S01-12DG/V		6063113
4WE 6 EA A01-205DG/N	4248280	4WE 6 EA S01-205DG/N		6106503
4WE 6 EA A01-205DG/V	4248278	4WE 6 EA S01-205DG/V		6083949
4WE 6 EA A01-230AG/V	4248277	4WE 6 EA S01-230AG/V		3939448
4WE 6 EA A01-24DG/N	4248254	4WE 6 EA S01-24DG/N		6071715
4WE 6 EA A01-24DG/V	4169784	4WE 6 EA S01-24DG/V		6063119
4WE 6 EA A01-24DO/N	4248276	4WE 6 EA S01-24DO/N		6082125
4WE 6 EA A01-24DO/V	4248275	4WE 6 EA S01-24DO/V	6106500	
4WE 6 EB A01-0/V	4248985	EB	4WE 6 EB S01-0/V	3864885
4WE 6 EB A01-12DG/N	4248986		4WE 6 EB S01-12DG/N	6106504
4WE 6 EB A01-12DG/V	4188661		4WE 6 EB S01-12DG/V	6092333
4WE 6 EB A01-24DG/N	4248987		4WE 6 EB S01-24DG/N	6106505
4WE 6 EB A01-24DG/V	4169786		4WE 6 EB S01-24DG/V	3606097
4WE 6 F A01-24DG/N	4248989	F	4WE 6 F S01-24DG/N	3743096
4WE 6 F A01-24DG/V	4211902		4WE 6 F S01-24DG/V	-

APPENDIX

A 01 - SERIES (new)			S 01 - SERIES (old)		
DESCRIPTION	#		DESCRIPTION	#	
4WE 6 G A01-0/V	4248991	G	4WE 6 G S01-0/V	6082927	
4WE 6 G A01-110AG/V	4248992		4WE 6 G S01-110AG/V	3939445	
4WE 6 G A01-12DG/N	4248993		4WE 6 G S01-12DG/N	6071716	
4WE 6 G A01-12DG/V	4188663		4WE 6 G S01-12DG/V	6063115	
4WE 6 G A01-205DG/N	4248994		4WE 6 G S01-205DG/N	6106539	
4WE 6 G A01-205DG/V	4249016		4WE 6 G S01-205DG/V	6075976	
4WE 6 G A01-230AG/V	4249017		4WE 6 G S01-230AG/V	3939424	
4WE 6 G A01-24DG/N	4249018		4WE 6 G S01-24DG/N	6071719	
4WE 6 G A01-24DG/V	4079322		4WE 6 G S01-24DG/V	6063143	
4WE 6 G A01-24DO/N	4249019		4WE 6 G S01-24DO/N	6070020	
4WE 6 G A01-24DO/V	4249020		4WE 6 G S01-24DO/V	6106536	
4WE 6 G A01-96DG/N	4249021		4WE 6 G S01-96DG/N	6106538	
4WE 6 G A01-96DG/V	4249022		4WE 6 G S01-96DG/V	6091357	
4WE 6 GA A01-0/V	4249030		GA	4WE 6 GA S01-0/V	3564351
4WE 6 GA A01-12DG/N	4249031			4WE 6 GA S01-12DG/N	6106506
4WE 6 GA A01-12DG/V	4249032	4WE 6 GA S01-12DG/V		6091131	
4WE 6 GA A01-205DG/N	4249033	4WE 6 GA S01-205DG/N		6106509	
4WE 6 GA A01-205DG/V	4249034	4WE 6 GA S01-205DG/V		6091132	
4WE 6 GA A01-24DG/N	4249066	4WE 6 GA S01-24DG/N		6082087	
4WE 6 GA A01-24DG/V	4169787	4WE 6 GA S01-24DG/V		6080326	
4WE 6 GA A01-24DO/N	4249069	4WE 6 GA S01-24DO/N		6082122	
4WE 6 GA A01-24DO/V	4249072	4WE 6 GA S01-24DO/V	6106507		
4WE 6 GB A01-24DG/V	4246932	GB	4WE 6 GB S01-24DG/V	-	
4WE 6 H A01-0/V	4249141	H	4WE 6 H S01-0/V	6082925	
4WE 6 H A01-110AG/V	4249143		4WE 6 H S01-110AG/V	3939422	
4WE 6 H A01-12DG/N	4249165		4WE 6 H S01-12DG/N	6071720	
4WE 6 H A01-12DG/V	4188664		4WE 6 H S01-12DG/V	6063116	
4WE 6 H A01-205DG/N	4249166		4WE 6 H S01-205DG/N	6106543	
4WE 6 H A01-205DG/V	4249169		4WE 6 H S01-205DG/V	6078343	
4WE 6 H A01-230AG/V	4249170		4WE 6 H S01-230AG/V	3939421	
4WE 6 H A01-24DG/N	4249173		4WE 6 H S01-24DG/N	6071721	
4WE 6 H A01-24DG/V	4079324		4WE 6 H S01-24DG/V	6063145	
4WE 6 H A01-24DO/N	4249174		4WE 6 H S01-24DO/N	6082124	
4WE 6 H A01-24DO/V	4249175		4WE 6 H S01-24DO/V	6106540	
4WE 6 H A01-96DG/N	4249176		4WE 6 H S01-96DG/N	6106542	
4WE 6 H A01-96DG/V	4249178		4WE 6 H S01-96DG/V	3554793	

A 01 - SERIES (new)			S 01 - SERIES (old)		
DESCRIPTION	#		DESCRIPTION	#	
4WE 6 HA A01-0/V	4248810	HA	4WE 6 HA S01-0/V	3564309	
4WE 6 HA A01-12DG/V	4249179		4WE 6 HA S01-12DG/V	6142429	
4WE 6 HA A01-205DG/N	4248811		4WE 6 HA S01-205DG/N	6106512	
4WE 6 HA A01-205DG/V	4248813		4WE 6 HA S01-205DG/V	6075567	
4WE 6 HA A01-24DG/N	4248814		4WE 6 HA S01-24DG/N	6079595	
4WE 6 HA A01-24DG/V	4169788		4WE 6 HA S01-24DG/V	6074343	
4WE 6 HA A01-24DO/N	4248815		4WE 6 HA S01-24DO/N	6082121	
4WE 6 HA A01-24DO/V	4248816		4WE 6 HA S01-24DO/V	6106510	
4WE 6 HA A01-96DG/N	4249183		4WE 6 HA S01-96DG/N	6106511	
4WE 6 HA A01-96DG/V	4249186		4WE 6 HA S01-96DG/V	6088916	
4WE 6 HB A01-0/V	4248817		HB	4WE 6 HB S01-0/V	3583903
4WE 6 HB A01-12DG/V	4248818			4WE 6 HB S01-12DG/V	3972569
4WE 6 HB A01-24DG/V	4169789	4WE 6 HB S01-24DG/V		6075707	
4WE 6 J A01-0/V	4248820	J	4WE 6 J S01-0/V	6082926	
4WE 6 J A01-110AG/V	4248822		4WE 6 J S01-110AG/V	3939417	
4WE 6 J A01-12DG/N	4248824		4WE 6 J S01-12DG/N	6071722	
4WE 6 J A01-12DG/V	4188667		4WE 6 J S01-12DG/V	6063117	
4WE 6 J A01-12DN/V	4248835		4WE 6 J S01-12DN/V	3820993	
4WE 6 J A01-12DU/V/M4	4249187		4WE 6 J S01-12DU/V-SO1166	3805516	
4WE 6 J A01-205DG/N	4248836		4WE 6 J S01-205DG/N	6106546	
4WE 6 J A01-205DG/V	4194195		4WE 6 J S01-205DG/V	6072633	
4WE 6 J A01-230AG/V	4248837		4WE 6 J S01-230AG/V	3939416	
4WE 6 J A01-24DG/N	4248839		4WE 6 J S01-24DG/N	6063580	
4WE 6 J A01-24DG/V	4079356		4WE 6 J S01-24DG/V	6063148	
4WE 6 J A01-24DN/V	4079362		4WE 6 J S01-24DN/V	3820987	
4WE 6 J A01-24DO/N	4248840		4WE 6 J S01-24DO/N	6070013	
4WE 6 J A01-24DO/V	4248841		4WE 6 J S01-24DO/V	6106544	
4WE 6 J A01-96DG/N	4248843		4WE 6 J S01-96DG/N	6086743	
4WE 6 J A01-96DG/V	4194169		4WE 6 J S01-96DG/V	6096864	
4WE 6 JA A01-0/V	4248845		JA	4WE 6 JA S01-0/V	3564347
4WE 6 JA A01-12DG/V	4248846			4WE 6 JA S01-12DG/V	4008207
4WE 6 JA A01-24DG/N	4248848	4WE 6 JA S01-24DG/N		6082088	
4WE 6 JA A01-24DG/V	4169791	4WE 6 JA S01-24DG/V		6086723	
4WE 6 JA A01-24DO/N	4248849	4WE 6 JA S01-24DO/N		6082123	
4WE 6 JA A01-24DO/V	4248850	4WE 6 JA S01-24DO/V		6106513	
4WE 6 JB A01-12DG/N	4248851	JB	4WE 6 JB S01-12DG/N	6106516	
4WE 6 JB A01-12DG/V	4248852		4WE 6 JB S01-12DG/V	6069331	
4WE 6 JB A01-24DG/N	4248854		4WE 6 JB S01-24DG/N	6083574	
4WE 6 JB A01-24DG/V	4169792		4WE 6 JB S01-24DG/V	6083680	
4WE 6 JB A01-24DO/V	4248865		4WE 6 JB S01-24DO/V	6106517	
4WE 6 JB A01-96DG/N	4248866		4WE 6 JB S01-96DG/N	3898656	

APPENDIX

A 01 - SERIES (new)			S 01 - SERIES (old)	
DESCRIPTION	#		DESCRIPTION	#
4WE 6 JR A01-0/V	4248868	JR	4WE 6 JR S01-0/V	3764494
4WE 6 JR A01-24DG/V	4167882		4WE 6 JR S01-24DG/V	3593933
4WE 6 KA A01-24DG/V	4169794	KA	4WE 6 KA S01-24DG/V	3782759
4WE 6 L A01-24DG/V	4169798	L	4WE 6 L S01-24DG/V	3635443
4WE 6 M A01-0/V	4248869	M	4WE 6 M S01-0/V	3888171
4WE 6 M A01-205DG/V	4248870		4WE 6 M S01-205DG/V	4141447
4WE 6 M A01-24DG/N	4248871		4WE 6 M S01-24DG/N	6070032
4WE 6 M A01-24DG/V	4079358		4WE 6 M S01-24DG/V	6086724
4WE 6 P A01-24DG/N	4248872	P	4WE 6 P S01-24DG/N	3560766
4WE 6 P A01-24DG/V	4211925		4WE 6 P S01-24DG/V	-
4WE 6 Q A01-0/V	4248873	Q	4WE 6 Q S01-0/V	3888172
4WE 6 Q A01-12DG/V	4248874		4WE 6 Q S01-12DG/V	4047825
4WE 6 Q A01-24DG/N	4248885		4WE 6 Q S01-24DG/N	6082090
4WE 6 Q A01-24DG/V	4079360		4WE 6 Q S01-24DG/V	6086725
4WE 6 Q A01-24DO/N	4248886		4WE 6 Q S01-24DO/N	6070015
4WE 6 Q A01-24DO/V	4248887		4WE 6 Q S01-24DO/V	6106547
4WE 6 Q A01-96DG/N	4248888		4WE 6 Q S01-96DG/N	6106548
4WE 6 Q A01-96DG/V	4248889		4WE 6 Q S01-96DG/V	3587850
4WE 6 QA A01-24DG/N	4248965	QA	4WE 6 QA S01-24DG/N	6082089
4WE 6 QA A01-24DG/V	4169795		4WE 6 QA S01-24DG/V	6086726
4WE 6 QA A01-24DO/N	4248966		4WE 6 QA S01-24DO/N	6082120
4WE 6 QA A01-24DO/V	4248967		4WE 6 QA S01-24DO/V	6106518
4WE 6 R A01-0/V	4248969	R	4WE 6 R S01-0/V	3651429
4WE 6 R A01-24DG/N	4248970		4WE 6 R S01-24DG/N	3560769
4WE 6 R A01-24DG/V	4211927		4WE 6 R S01-24DG/V	3669382
4WE 6 U A01-205DG/V	4248971	U	4WE 6 U S01-205DG/V	3788305
4WE 6 U A01-24DG/V	4169800		4WE 6 U S01-24DG/V	3743095
4WE 6 UA A01-24DG/V	4169796	UA	4WE 6 UA S01-24DG/V	-
4WE 6 Y A01-0/V	4248972	Y	4WE 6 Y S01-0/V	3583901
4WE 6 Y A01-12DG/V	4188668		4WE 6 Y S01-12DG/V	3939724
4WE 6 Y A01-205DG/V	4248973		4WE 6 Y S01-205DG/V	4100070
4WE 6 Y A01-24DG/N	4248974		4WE 6 Y S01-24DG/N	3676807
4WE 6 Y A01-24DG/V	4079386		4WE 6 Y S01-24DG/V	6078157
(→ D-OF)	-	Y-OF	4WE 6 Y-OF S01-24DG/N	6083573
(→ D-OF)	-		4WE 6 Y-OF S01-24DO/V	6083520
4WE 6 YT A01-24DG/V	4169797	YT	4WE 6 YT S01-24DG/V	-