

CMV.
Variable Displacement Motor.
Bent Axis Design.

Linde Hydraulics

Linde

PRODUCT



Pressure
Level

- ☒ High Pressure Hydraulics
☐ Medium Pressure Hydraulics

Application

- ☒ Open Circuit
☒ Closed Circuit

DOCUMENT

Specification

- ☒ Inquiry Form (Modelcode & Availability)
☐ Datasheet

Operation

- ☐ Basic Instructions
☐ Additional Instructions

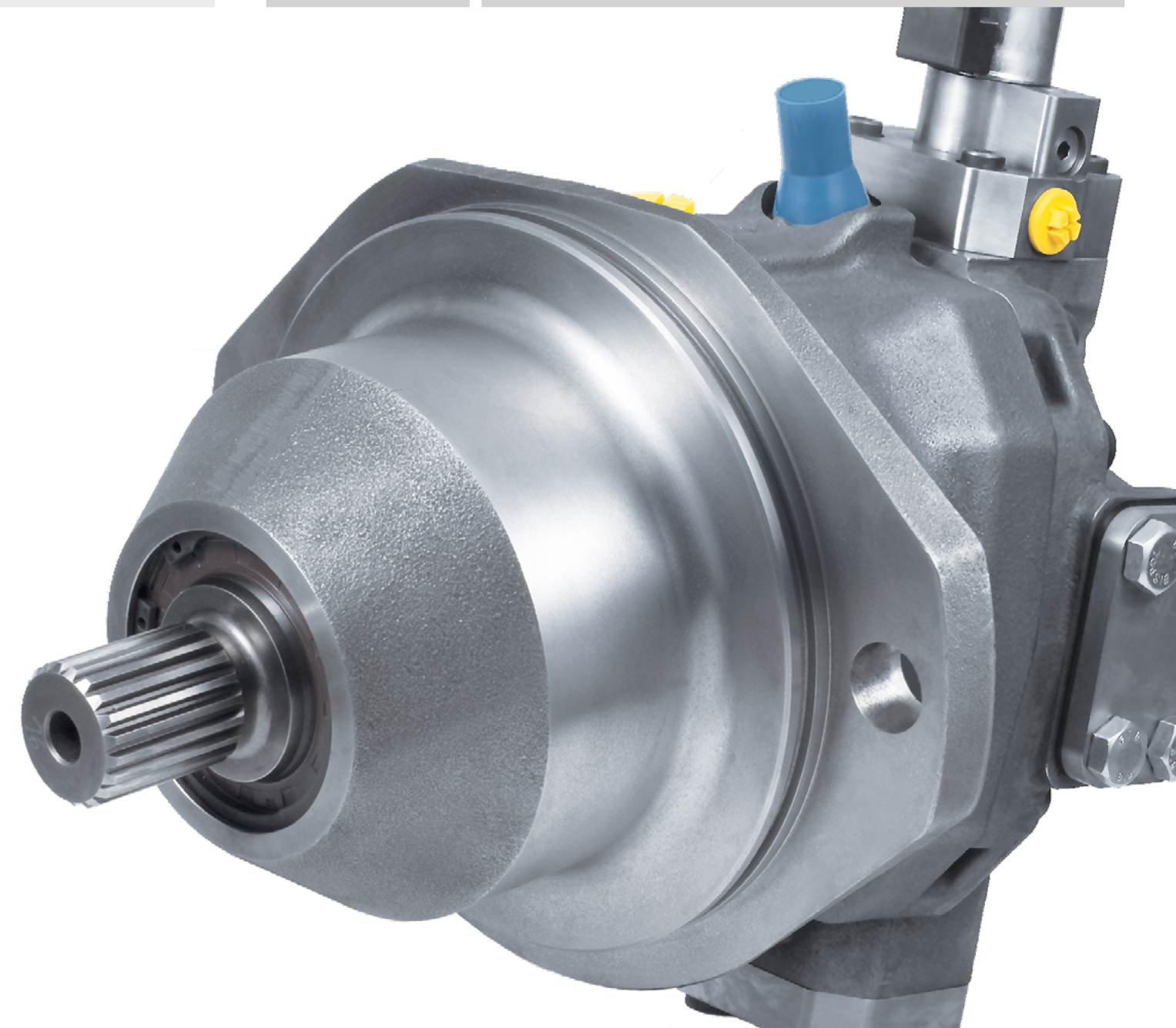
Assembly

- ☐ Basic Instructions
☐ Additional Instructions

Release

23/11/2023

[Download the
latest version](#)



Configuration | Modelcode & Availability

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01.

MODELCODE
ITEM

CMV

Type



Item	Feature												
01.	Type												
	Characteristic												
	Type												
CMV	CMV			Bent Axis Design Variable Displacement Motor Open & Closed Circuit Operation									

	Signalization	●	○	Signalization	
	Availability from	Now	Upon request	Preference	Preferred option

Configuration | Modelcode & Availability

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02.

MODELCODE
ITEM

A6

Model Code Release



Item	Feature												
02.	Model code release												
	Characteristic												
	Release date												
A6	November 2023												

	Signalization	●	○	Signalization	
	Availability from	Now	Upon request	Preference	Preferred option

Configuration | Modelcode & Availability

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03.

MODELCODE
ITEM

Nominal Size



Item	Feature									
03.	Nominal size									
	Characteristic				Nominal size					Spec.
	Nominal size	Maximum displacement range [cc/rev]			060	085	115	140	170	215
060	60	62			●					
085	85	87.7				●				
115	115	115.3					●			
140	140	144.1						●		
170	170	170							●	
215	215	217.9								●


	Signalization	●	○	Signalization	<div></div>
	Availability from	Now	Upon request	Preference	Preferred option

Configuration | Modelcode & Availability






CONFIGURATION

Modelcode & Availability

Your choice & Inquiry



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Item	Feature											
04.	Displacement controller											
	Characteristic					Nominal size					Spec.	
	Control	Default position	Characteristic (schematically shown)	Max. controlled		060	085	115	140	170	215	
00		Vgmax		Vgmax	No displacement controller	●	●	●	●	●	●	
		Vgmin		Vgmin								
E2	Electric	Vgmax		Vgmax	2-position (negative control, minimum Vgmin=0)	○	○	○	○	○	○	
		Vgmin		Vgmin								
E4		Vgmax		Vgmax	Proportional (ΔI = 35 to 80 % of IG resolution, negative control, minimum Vgmin = 0)	●	●	●	●	●	●	
		Vgmin		Vgmin								
E5		Vgmax		Vgmax	2-position (positive control, minimum Vgmin = 0)	○	○	○	○	○	○	
		Vgmin		Vgmin								
E6		Vgmax		Vgmax	Proportional (ΔI = 35 to 80 % of IG resolution, positive control, minimum Vgmin = 0)	●	●	●	●	●	●	
		Vgmin		Vgmin								





04.

MODELCODE ITEM



Displacement Controller



Item	Feature										
	Characteristic					Nominal size					Spec.
	Control	Default position	Characteristic (schematically shown)	Max. controlled		060	085	115	140	170	215
H2	Hydraulic	Vgmax		Vgmax	2-position (reference pressure = case pressure, negative control, minimum Vgmin = 0)	○	○	○	○	○	○
		Vgmin		Vgmin							
H4		Vgmax		Vgmax	Proportional (ΔpSt = 10 bar resolution, reference pressure = case pressure, negative control, minimum Vgmin = 0)	●	●	●	●	●	
		Vgmin		Vgmin							
H5		Vgmax		Vgmax	2-position (reference pressure = case pressure, positive control, minimum Vgmin = 0)	○	○	○	○	○	
		Vgmin		Vgmin							
H6		Vgmax		Vgmax	Proportional (ΔpSt = 10 bar resolution, reference pressure = case pressure, positive control, minimum Vgmin = 0)	●	●	●	●	●	
		Vgmin		Vgmin							

	Signalization	●	○	Signalization	
	Availability from	Now	Upon request	Preference	Preferred option

Configuration | Modelcode & Availability

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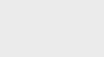



05.


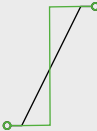

MODELCODE
ITEM



Pressure Controller
and/or Override Signal



Item	Feature																					
05.	Pressure controller and/or override signal																					
	Characteristic											Nominal size				Spec.						
	Default position	Characteristic (schematically shown)	Max. controlled													060	085	115	140	170	215	
00				No pressure controller, no override signal																		
				Compatibility with displacement controller												●	●	●	●	●	●	
				00	E2	E4	E5	E6	HC	H2	H4	H5	H6									
						✓		✓			✓		✓									
P0	Vgmax		Vgmax	Pressure controller (15 bar pressure gain), shuttle valve = highest work port pressure																		
				Compatibility with displacement controller												●	●	●	●	●	●	
				00	E2	E4	E5	E6	HC	H2	H4	H5	H6									
				✓		✓					✓											
P1	Vgmax		Vgmax	Pressure controller (100 bar pressure gain), shuttle valve = highest work port pressure																		
				Compatibility with displacement controller												●	●	●	●	●	●	
				00	E2	E4	E5	E6	HC	H2	H4	H5	H6									
				✓																		
P3	Vgmax		Vgmax	Pressure controller (15 bar pressure gain), shuttle valve = highest work port pressure, remote signal for reduction of pressure controller setting																		
				Compatibility with displacement controller												●	●	●	●	●	●	
				00	E2	E4	E5	E6	HC	H2	H4	H5	H6									
				✓																		

Item	Feature																	
	Characteristic								Nominal size					Spec.				
	Default position	Characteristic (schematically shown)	Max. controlled									060	085	115	140	170	215	
P4	Vgmax		Vgmax	Pressure controller (15 bar pressure gain), electric controlled pressure side selection														
	Vgmin			Compatibility with displacement controller								●	●	●	●	●	●	
			Vgmin	00	E2	E4	E5	E6	HC	H2	H4	H5	H6					
							✓			✓								
P6	Vgmax		Vgmax	Pressure controller (15 bar pressure gain), electric controlled pressure side selection, electric Vgmax switch														
	Vgmin			Compatibility with displacement controller								○	○	○	○	○	○	
			Vgmin	00	E2	E4	E5	E6	HC	H2	H4	H5	H6					
							✓		✓									
P8	Vgmax		Vgmax	Pressure controller (100 bar pressure gain), shuttle valve = highest work port pressure, remote signal for reduction of pressure controller setting														
	Vgmin			Compatibility with displacement controller								●	●	●	●	●	●	
			Vgmin	00	E2	E4	E5	E6	HC	H2	H4	H5	H6					
				✓														

	Signalization	●	○		Signalization	
	Availability from	Now	Upon request		Preference	Preferred option

CONFIGURATION

Modelcode & Availability

Your choice & Inquiry



Configuration | Modelcode & Availability

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06.

MODELCODE
ITEM

Electric Connectors
for Solenoids



Item	Feature									
06.	Electric connectors for solenoids									
	Characteristic				Nominal size					Spec.
					060	085	115	140	170	215
0				Not applicable	●	●	●	●	●	
D				Deutsch Please note! Your selection here is indicative for further config. steps. If you select a sensor at model-code item 12, the same connector type must be selected there. A mix of different connector types is not possible.	●	●	●	●	●	
A				AMP Junior Timer Please note! Your selection here is indicative for further config. steps. If you select a sensor at model-code item 12, the same connector type must be selected there. A mix of different connector types is not possible.	●	●	●	●	●	

	Signalization	●	○	Signalization	
	Availability from	Now	Upon request	Preference	Preferred option

Configuration | Modelcode & Availability

Your choice & Inquiry

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07.

MODEL CODE	ITEM
1000	1000
1001	1001
1002	1002
1003	1003
1004	1004
1005	1005
1006	1006
1007	1007
1008	1008
1009	1009
1010	1010
1011	1011
1012	1012
1013	1013
1014	1014
1015	1015
1016	1016
1017	1017
1018	1018
1019	1019
1020	1020
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1086	1086
1087	1087
1088	1088
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1092	1092
1093	1093
1094	1094
1095	1095
1096	1096
1097	1097
1098	1098
1099	1099



Voltage for Solenoids

[illegible]

	Signalization	●	○		Signalization	
	Availability from	Now	Upon request		Preference	Preferred option

Configuration | Modelcode & Availability

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08.

MODELCODE
ITEM



Mounting Flange



Item	Feature									
08.	Mounting flange									
	Characteristic				Nominal size					Spec.
	Standard	Size [mm]- Number of bolts			060	085	115	140	170	215
C2	ISO 3019-1 / SAE J744	127-2		SAE C		●				
C4		127-4		SAE C	●					
D4		152-4		SAE D		●	●	●		
E4		165-4		SAE E					●	
M4	ISO 3019-2 metric	125-4			●					
N4		140-4				●				
P4		160-4					●			
R4		180-4					●	●		

Item	Feature									
	Characteristic				Nominal size					Spec.
	Standard	Size [mm]- Number of bolts			060	085	115	140	170	215
S4	ISO 3019-2 metric	200-4							●	
P2	Plug-in, similar to ISO 3019-2	160-2		Plug-in	●					
Y2		190-2		Plug-in		●				
S2		200-2		Plug-in			●	●	●	
Z4		260-4		Plug-in					●	

	Signalization	●	○		Signalization	■
	Availability from	Now	Upon request		Preference	Preferred option

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[illegible]

	Signalization	●	○	Signalization	
	Availability from	Now	Upon request	Preference	Preferred option

Configuration | Modelcode & Availability

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10.

MODELCODE
ITEM



Port Plate Housing



Item	Feature												
10.	Port Plate Housing												
	Characteristic						Nominal size					Spec.	
	Work port orientation	Open & closed circuit operation	Open circuit operation				060	085	115	140	170	215	
		Without additional functions	Counter balance valve	Cross over relief valve	Anti-cavitation valve	Interface for external counter balance valve							
A0		✓					●	●	●	●	●	●	
A3					✓					○	○		
A4						✓				●	●		
A5	Axial twin ports (facing to rear)			✓		✓			○	○			
S0		Side ports (facing to the outside, left and right)	✓				●	●	●	●	●	●	

Item	Feature																
10.	Port Plate Housing																
	Characteristic						Nominal size				Spec.						
	Work port orientation	Open & closed circuit operation	Open circuit operation				060	085	115	140	170	215					
							Without additional functions	Counter balance valve	Cross over relief valve	Anti-cavitation valve	Interface for external counter balance valve						
R2								✓							○	○	



	Signalization	●	○
	Availability from	Now	Upon request

	Signalization	■
	Preference	Preferred option

Configuration | **Modelcode & Availability**

Your choice & Inquiry

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11.

MODELCODE
ITEM

M

Auxiliary Ports

[illegible]


	Signalization	●	○		Signalization	
	Availability from	Now	Upon request		Preference	Preferred option

Configuration | Modelcode & Availability

CONFIGURATION

Modelcode & Availability

Your choice & Inquiry



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Item	Feature										
12.	Valve function settings (according to your choice at item 10. Port plate housing)										
	Characteristic					Nominal size					Spec.
						060	085	115	140	170	215
	Operation	Port plate function	Pressure [bar]	Flow [l/min]							
0	Open & closed circuit	No additional function	-	-		●	●	●	●	●	●
P		Cross over relief valve	400					○	○		
Q			380					○	○		
R			350					○	○		
S			300					○	○		
T			250					○	○		

12.

MODELCODE ITEM

Valve Function Settings



Item	Feature										
12.	Valve function settings (according to your choice at item 10. Port plate housing)										
	Characteristic					Nominal size					Spec.
						060	085	115	140	170	215
	Operation	Function	Pressure [bar]	Flow [l/min]							
B	Closed circuit	Flushing		6		●	●	●	●	●	●
D				10		●	●	●	●	●	●
F				15		●	●	●	●	●	●
H				20		●	●	●	●	●	●
J				25							

	Signalization	●	○	Signalization	
	Availability from	Now	Upon request	Preference	Preferred option

Configuration | Modelcode & Availability

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13.

MODELCODE
ITEM



Speed Sensor




Item	Feature									
13.	Speed sensor									
	Characteristic				Nominal size					Spec.
	Speed sensor	Prepared for speed sensor	Without Speed sensor		060	085	115	140	170	215
D	✓			Speed sensor, Function: speed and direction of rotation; Connector: Deutsch Please note! If you've already chosen a connector type at modelcode item 6, please don't mix it with a different type here.	●	●	●	●	●	●
A	✓			Speed sensor, Function: speed and direction of rotation; Connector: AMP Please note! If you've already chosen a connector type at modelcode item 6, please don't mix it with a different type here.	●	●	●	●	●	●
V		✓		Option allows the subsequent installation of speed sensors (Housing already has a mounting for the sensor, the drive shaft is equipped with an incremental ring)	●	●	●	●	●	●
0			✓	Option does not allow the subsequent installation of speed sensors (The drive shaft is not equipped with an incremental ring)	○	○	○	○	○	○

	Signalization	●	○	Signalization	
	Availability from	Now	Upon request	Preference	Preferred option

CONFIGURATION

Modelcode & Availability

Your choice & Inquiry



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[illegible]

14. V Seal Material 

	Signalization	●	○	Signalization	
	Availability from	Now	Upon request	Preference	Preferred option




Configuration | Modelcode & Availability

CONFIGURATION

Modelcode & Availability

Your choice & Inquiry



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Item	Feature									
15.	Corrosion protection or paint									
	Characteristic				Nominal size					Spec.
	Corrosion protection	Primer	Paint		060	085	115	140	170	215
R00	Anticorit RPO-3002			Corrosion protection, no primer or paint, 6 month active	●	●	●	●	●	●
P01		oxide red, RAL 3009		Primer	●	●	●	●	●	●
P06		traffic grey B RAL 7043		Primer (default primer)	●	●	●	●	●	●
V03		grey, RAL 7043	jet black, RAL 9005	2-coat paint	●	●	●	●	●	●
V07		grey, RAL 7043	slate grey, RAL 7015	2-coat paint	●	●	●	●	●	●

15.

MODELCODE ITEM

Corrosion Protection or Paint



	Signalization	●	○	Signalization	
	Availability from	Now	Upon request	Preference	Preferred option

Configuration | Modelcode & Availability

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16.

MODELCODE
ITEM

Vg_{max}



Item	Feature										
16.	Vg _{max}										
	Characteristic					Nominal size					Spec.
	Fixed setting	Individual setting	Comes with adjustment screw	Subsequent changes possible	Set value [cc/rev]	060	085	115	140	170	215
999	✓				62	●					
					87.7		●				
					115.3			●			
					144.1				●		
					170					●	
					217.9						●
[VALUE]		✓	✓	✓	Individual value (numeric, 3 digits, only integer values) Minimum 70% of Vg _{max} expressed in cc/rev)	●	●	●	●	●	●

	Signalization	●	○	Signalization	
	Availability from	Now	Upon request	Preference	Preferred option

Configuration | Modelcode & Availability

Your choice & Inquiry

In the following you will find the configuration features including brief information. In order to be able to save your choice without problems, please save this document on a local drive before starting and after completing the configuration. Set your choice via the dropdown menus in the upper area. In order to ensure a feasible configuration, please consider the availability and compatibility of the individual items with the relevant nominal size. In the section [Your choice & inquiry] these items are then listed as a coherent model code. This code serves for further processing of your inquiry.

MODEL CODE
ITEM V_{gmin} [illegible]

	Signalization	●	○	Signalization	
	Availability from	Now	Upon request	Preference	Preferred option

- *1 at values $< 25\%$ of V_{gmax} , motor should not be operated in motor mode - always observe max speed limitations



Configuration | Modelcode & Availability

Your choice & Inquiry

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18.



MODELCODE
ITEM

Begin of Displacement Control (Hydraulic Controllers Only; as per 4.)


[illegible]

	Signalization	●	○		Signalization	
	Availability from	Now	Upon request		Preference	Preferred option

In the following you will find the configuration features including brief information. In order to be able to save your choice without problems, please save this document on a local drive before starting and after completing the configuration. Set your choice via the dropdown menus in the upper area. In order to ensure a feasible configuration, please consider the availability and compatibility of the individual items with the relevant nominal size. In the section [Your choice & inquiry] these items are then listed as a coherent model code. This code serves for further processing of your inquiry.

19.  Regulation Begin of Pressure Override (as per 5.) 

[illegible]

	Signalization	●	○	Signalization	
	Availability from	Now	Upon request	Preference	Preferred option



Configuration | Modelcode & Availability

In the following you will find the configuration features including brief information. In order to be able to save your choice without problems, please save this document on a local drive before starting and after completing the configuration. Set your choice via the dropdown menus in the upper area. In order to ensure a feasible configuration, please consider the availability and compatibility of the individual items with the relevant nominal size. In the section [Your choice & inquiry] these items are then listed as a coherent model code. This code serves for further processing of your inquiry.

20.

MODELCODE
ITEM



Control Damping



Item	Feature												
20.	Control damping												
	Characteristic						Nominal size					Spec.	
	Option depends on controller configuration		Undamped swiveling	Damped swiveling			060	085	115	140	170	215	
	Displacement controller	Pressure controller		from Vgmin to Vgmax	from Vgmax to Vgmin								
1	E4	00	✓				●	●	●	●	●	●	
	E6						●	●	●	●	●	●	
	H4						●	●	●	●	●	●	
	H6						●	●	●	●	●	●	
	00	P0		✓			●	●	●	●	●	●	
		P1		✓			●	●	●	●	●	●	
		P3		✓			●	●	●	●	●	●	
		P8		✓			●	●	●	●	●	●	
	E4	P0		✓	✓		●	●	●	●	●	●	
	H4						●	●	●	●	●	●	
	E4	P4		✓	✓		●	●	●	●	●	●	
	H4						●	●	●	●	●	●	
	HC	P6		✓	✓		●	●	●	●	●	●	
	H4						●	●	●	●	●	●	

Item	Feature												
	Characteristic						Nominal size				Spec.		
	Option depends on controller configuration		Undamped swiveling	Damped swiveling			060	085	115	140	170	215	
	Displacement controller	Pressure cotroller		from Vgmin to Vgmax	from Vgmax to Vgmin								
2	E4	00		✓	✓		●	●	●	●	●	●	
	E6						●	●	●	●	●	●	
	H4						●	●	●	●	●	●	
	H6						●	●	●	●	●	●	



	Signalization	●	○	Signalization	
	Availability from	Now	Upon request		Preferred option

Configuration | Modelcode & Availability

In the following you will find the configuration features including brief information. In order to be able to save your choice without problems, please save this document on a local drive before starting and after completing the configuration. Set your choice via the dropdown menus in the upper area. In order to ensure a feasible configuration, please consider the availability and compatibility of the individual items with the relevant nominal size. In the section [Your choice & inquiry] these items are then listed as a coherent model code. This code serves for further processing of your inquiry.

21.

MODELCODE
ITEM

Variant Configuration
(may require further information)



Item	Feature											
21.	Variant configuration (may require further information)											
	Characteristic											
0	Standard execution			(Your desired configuration corresponds to the availabilities and combinations listed in this document.)	●	●	●	●	●	●		
S	Special version			(Your desired configuration does not correspond to the availabilities shown in this document and/or does not correspond to the possible combinations shown.) Please explain your desired configuration in more detail under “Your choice & inquiry!”	○	○	○	○	○	○		




	Signalization	●	○	Signalization	<div></div>
	Availability from	Now	Upon request	Preference	Preferred option

In the following you will find the choice of items you've made in the section [Modelcode & Availability]. In addition, you will find form fields for your personal data. In order to be able to save the content of the form fields without problems, please save this data sheet on a local drive before starting and after completing the configuration. Data may be lost when working in a browser-based environment. Please note! The form fields should be filled in as completely as possible to ensure smooth processing of your inquiry. In addition, this form is intended for inquiry purposes and to facilitate communication. However, it does not represent a binding order form.

BASIC SPEC.		MOTOR CONTROL			ELECTRIC INTERFACE			MECHANICAL INTERFACE		HYDRAULIC INTERFACE					
01. CMV	02. A6	03. <input type="text"/>	04. <input type="text"/>	05. <input type="text"/>	06. <input type="text"/>	07. <input type="text"/>	08. <input type="text"/>	09. <input type="text"/>	10. <input type="text"/>	11. M					
VALVE FUNCTION		SENSORS		SEALS		COATING		DISPLACEMENT		PRESS. OVERR.		DAMPING		STANDARD	
12. <input type="text"/>	13. <input type="text"/>	14. V	15. <input type="text"/>	16. <input type="text"/>	17. <input type="text"/>	18. <input type="text"/>	19. <input type="text"/>	20. <input type="text"/>	21. <input type="text"/>						

Your company	Name		
	Customer ID	(if available)	
	Postal address	Street	
		City area/District	
		City/Town/Village	
		County	
		Postal code	
		Country	
Your contact details	Name		
	Email		
	Phone	Landline	
		Mobile	

Your demand	Planned quantity/ year	Number of units	
Your application (optional)	Type of application		
	Machine weight	t	
	Power of the drive motor	kW	
	Functional area of the inquired product	Hydraulic circuit	
		Operation	
		Function	
	Your notes (optional)		
			

Please note! In order to be able to save the content of the form fields without problems, please save this data sheet before sending.



Please find a local sales partner in your area on our website.



Please submit this data sheet filled out to your local sales partner.



Your sales partner will come back to you with an offer in a timely manner



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