



# CPV | Inquiry Form

PRODUCT							
Type	Design	Design	Pressure Level	Application			
Electronic Control Unit <input type="radio"/>							
Hydraulic Pump <input checked="" type="radio"/>	Axial Piston <input checked="" type="radio"/>	Bent Axis <input type="radio"/>	Medium Pressure <input type="radio"/>	Open Circuit <input type="radio"/>			
Hydraulic Motor <input type="radio"/>		Swash Plate <input checked="" type="radio"/>	High Pressure <input checked="" type="radio"/>	Closed Circuit <input checked="" type="radio"/>			
Control Valves <input type="radio"/>	Open Center <input type="radio"/>	Monoblock <input type="radio"/>					
	Closed Center <input type="radio"/>	Modular <input type="radio"/>					
		Sandwich <input type="radio"/>					

DOCUMENT							
Specification	Test/Validation	Operation	Service	Release			
Inquiry Form <input checked="" type="radio"/>	Basic information <input type="radio"/>	Basic instructions <input type="radio"/>	Basic instructions <input type="radio"/>	15 <sup>th</sup> May 2026			
Datasheet <input type="radio"/>	Add./Cust. information <input type="radio"/>	Add./Cust. instructions <input type="radio"/>	Add./Cust. instructions <input type="radio"/>	English			

 To ensure the currently valid database for your inquiry, please download the latest version of this document from LHY website.

 To be able to save the content of the form fields without problems, please save this data sheet on local drive before starting to configure.

 Check out the features and start configuring your product via model code.



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.

**01.**

MODELCODE  
ITEM

**CPV**

Item	Feature
01.	Type
	Characteristic
	Type
CPV	<p>CPV</p> <p>Swashplate Design Variable Displacement Pump Closed Circuit Operation</p>



Symbol	045 055 065 085 100 145 175	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Status	Nominal sizes at development stage/ prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request

CONFIGURATION

Modelcode & Availability

Your choice & Inquiry

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**02.**

MODEL CODE  
ITEM

Nominal Size

Item	Feature		Nominal size								Spec.
	Nominal size	Maximum Displacement Range [cc/rev]	045	055	065	085	100	115	145	175	
045	45	45.0	●								
055	55	55.5		●							
065	65	066.6			●						
085	85	085.6				●					
100	100	100.5					●				
115	115	115.4						●			
145	145	149.0							●		
175	175	175.0								○	

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/ prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request

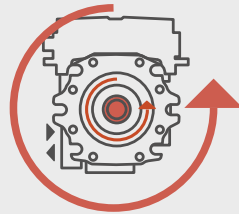
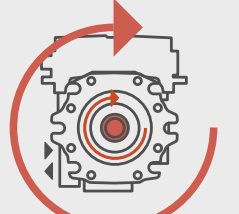


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**03.**

MODEL CODE  
ITEM

Direction of Rotation

Item	Feature	Nominal size								Spec.
03.	Direction of Rotation									
	Characteristic	045	055	065	085	100	115	145	175	
L	 <p><b>Left hand/ counterclockwise rotation</b> (with view to the drive shaft)</p>	○	○	○	●	●	●	○	○	
R	 <p><b>Right hand/ clockwise rotation</b> (with view to the drive shaft)</p>	●	●	●	●	●	●	●	○	

Symbol	<span style="background-color: #007bff; color: white; padding: 2px;">045</span> <span style="background-color: #007bff; color: white; padding: 2px;">055</span> <span style="background-color: #007bff; color: white; padding: 2px;">065</span> <span style="background-color: #007bff; color: white; padding: 2px;">085</span> <span style="background-color: #007bff; color: white; padding: 2px;">100</span> <span style="background-color: #007bff; color: white; padding: 2px;">145</span> <span style="background-color: #007bff; color: white; padding: 2px;">175</span>	<span style="background-color: #90ee90; color: black; padding: 2px;">●</span>	<span style="color: black; padding: 2px;">●</span>	<span style="color: black; padding: 2px;">○</span>
Status	Nominal sizes at development stage/prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

Modelcode & Availability

Your choice & Inquiry

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04.

Displacement Controller

MODELCODE ITEM

Item	Feature			Nominal size							Spec.	
04.	Displacement controller											
	Characteristic											
	Load dependency	Piloting	Characteristic (schematically shown)	045	055	065	085	100	115	145	175	
EP	Proportional (load-independent)	electro-hydraulic		●	●	●	●	●	●	●	○	
HP	Proportional (load-independent)	hydraulic										
MP	Proportional (load-independent)	mechanic										

Item	Feature			Nominal size							Spec.	
	Characteristic											
	Load dependency	Piloting	Characteristic (schematically shown)	045	055	065	085	100	115	145	175	
ED	Direct (load-dependent)	electro-hydraulic		●	●	○	●	●	●	○	○	
HD	Direct (load-dependent)	hydraulic										

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

Modelcode & Availability

Your choice & Inquiry

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05.

MODEL CODE  
ITEM

Enable Controller Function

Item	Feature	Nominal size								Spec.
05.	Enable controller function									
	Characteristic	045	055	065	085	100	115	145	175	
0	No enable controller function	●	●	●	●	●	●	●	○	
F	<p>Enable controller function</p> <p style="color: red;">This function is controlled electrically - regardless of electrical, hydraulical or mechanical displacement control</p> <p style="color: red;">See also modelcode item 07 for electric connectors for solenoids.</p>	●	●	●	●	●	●	●	○	

Symbol	045 055 065 085 100 145 175	■	●	○
Status	Nominal sizes at development stage/ prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



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06.

MODEL CODE  
ITEM

Pressure Cut-off

Item	Feature	Nominal size							Spec.	
06.	Pressure cut-off									
	Characteristic									
		045	055	065	085	100	115	145	175	
0	<p><b>No function</b></p> <p>No systemic control of the nominal pressure. Thus, without a pressure cut-off it must therefore be ensured by other means that the nominal permissible limit values of all system components are complied with under all operating conditions.</p>	●	●	●	●	●	●	●	○	
P	<p><b>Function in pump and motor mode</b></p> <p>The pressure cut-off controls the nominal system pressure (p<sub>nom</sub>). This refers to the pressure independent of the respective operating condition. This means that in both pump and motor operation, the pump is swiveled back towards „0“ when the nominal pressure is reached.</p> <p>Pressure cut-off settings please see item 24.</p>	●	●	●	●	●	●	●	○	

Symbol	<span style="background-color: #007bff; color: white; padding: 2px;">045</span> <span style="background-color: #007bff; color: white; padding: 2px;">055</span> <span style="background-color: #007bff; color: white; padding: 2px;">065</span> <span style="background-color: #007bff; color: white; padding: 2px;">085</span> <span style="background-color: #007bff; color: white; padding: 2px;">100</span> <span style="background-color: #007bff; color: white; padding: 2px;">145</span> <span style="background-color: #007bff; color: white; padding: 2px;">175</span>	<span style="background-color: #008000; color: white; padding: 2px;">■</span>	●	○
Status	Nominal sizes at development stage/ prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

Modelcode & Availability

Your choice & Inquiry

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07.

Electric Connectors for Solenoids

MODELCODE ITEM

Item	Feature							Nominal size							Spec.			
07.	Electric connectors for solenoids																	
	Characteristic																	
		Electrically actuated function																
		4. Displacement controller		5. Enable function controller						045	055	065	085	100	115	145	175	
00		Not applicable	Not applicable	Compatibility with Displ. Controller		This selection applies if neither an electrically actuated displacement controller (see item 04) nor an enable controller function (see item 05) is chosen.					●	●	●	●	●	●	○	
					EP	HP	MP	ED	HD									
					✓	✓	✓	✓	✓									
0D	Your choice here is indicative for further config. steps. If you choose a sensor at modelcode item 17 & 18, the same connector type should be selected there, if possible. Avoid a mix of different connector types.	Deutsch	Deutsch	Compatibility with Displ. Controller							●	●	●	●	●	●	○	
					EP	HP	MP	ED	HD									
					✓			✓										
0A		AMP Junior Timer	AMP Junior Timer	Compatibility with Displ. Controller							●	●	●	●	●	●	○	
					EP	HP	MP	ED	HD									
					✓													
ND		Deutsch with manual override	Deutsch	Compatibility with Displ. Controller							●	●	●	●	●	●	○	
					EP	HP	MP	ED	HD									
					✓													
NA		AMP Junior Timer with manual override	AMP Junior Timer	Compatibility with Displ. Controller							●	●	●	●	●	●	○	
					EP	HP	MP	ED	HD									
					✓													

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

Modelcode & Availability

Your choice & Inquiry

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**08.**

MODELCODE  
ITEM

Voltage for Solenoids

Item	Feature	Nominal size								Spec.
		045	055	065	085	100	115	145	175	
08.	Voltage for solenoids									
	Characteristic									
0	Not applicable	●	●	●	●	●	●	●	○	
1	12 V	●	●	●	●	●	●	●	○	
2	24 V	●	●	●	●	●	●	●	○	

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/ prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



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09.

MODELCODE  
ITEM

Front End - Mounting Flange

Item	Feature													
09.	Front end - Mounting flange													
	Characteristic				Nominal size						Spec.			
						045	055	065	085	100	115	145	175	
	Standard	Size [mm]	Horizontal hole pattern, Fixing points	Square hole pattern, Number of fixing points										
B2	SAE B	101	2	0	●	●								
C6	SAE C ISO 3019-1 / SAE J744	127	2	4	●	●	●	●	●					
D6	SAED	152	2	4						●	●	○		
E4	SAE E	165		4									○	

Symbol	<span style="background-color: #00a0e3; color: white; padding: 2px;">045</span> <span style="background-color: #00a0e3; color: white; padding: 2px;">055</span> <span style="background-color: #00a0e3; color: white; padding: 2px;">065</span> <span style="background-color: #00a0e3; color: white; padding: 2px;">085</span> <span style="background-color: #00a0e3; color: white; padding: 2px;">100</span> <span style="background-color: #00a0e3; color: white; padding: 2px;">145</span> <span style="background-color: #00a0e3; color: white; padding: 2px;">175</span>	<span style="background-color: #008000; color: white; padding: 2px;">■</span>	●	○
Status	Nominal sizes at development stage/prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

Modelcode & Availability

Your choice & Inquiry

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10.

MODELCODE ITEM

Item	Feature					Nominal size							Spec.
10.	Front end - Drive shaft / Drive flange												
	Characteristic												
	Standard	Number of teeth	Spline pitch/module	Identification code	045	055	065	085	100	115	145	175	
S5		15	16/32	25-4	●	●							
S7		14	12/24	32-4	●	●	●	●	●				
S8		21	16/32	35-4	●	●	●	●	●	●			
V6	ISO 3019-1/ SAE J744	23	16/32	38-4	○	○	○	●	●	○			
V7		27	16/32	44-4						●	○	○	
T1		13	8/16	44-4			●	●	●	●	○		
T2		15	8/16	50-4						○	●	○	

Item	Feature					Nominal size							Spec.
	Characteristic												
	Standard	Number of teeth	Spline pitch/module	Identification code	045	055	065	085	100	115	145	175	
D3		14	2	W30	○	○	○						
D4		16	2	W35	●	●	●	●	●				
D5	DIN5480	18	2	W40	○	○	○			○			
D6		21	2	W45					○	○	○	○	○
D7		24	2	W50								○	○
F4	SAE J1946			Companion flange Type A - 120x8xM10	○	○	●	●	●	○	○	○	○

Symbol	045 055 065 085 100 145 175	●	●	○
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Modelcode & Availability

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11.

MODELCODE  
ITEM

(Multiple) Pump Configuration

Item	Feature							Nominal size		
	Position of the pump in context of your inquiry	Number of pumps in total	Will be supplied as an factory-assembled multiple pump configuration	Choose PTO option compatible with subsequent pump (see model code items 12 & 13):	Please observe the maximum permissible drive shaft torque!	Please note the maximum permissible moment of inertia when mounting the pumps to the prime mover!				
11.	<b>(Multiple) pump configuration</b>							045 055 065 085 100 115 145 175		
00	1	1					Single pump configuration		● ● ● ● ● ● ● ○	
12	1	2	✓	!	!		Multiple pump configuration, Assembly in intermediate position		<p><b>Please note!</b></p> <p>This choice only applies to multiple pump configurations factory-supplied by LHY. Multiple pump configurations that are assembled by the customer must be configured as single pumps and are not taken into account here.</p> <p>Each pump of the desired configuration must be configured individually.</p> <p>In this document, you configure the pump whose position you choose with this modelcode item! Fill out 1 entire Modelcode &amp; Availability sheet for each pump.</p>	● ● ● ● ● ● ● ○
22	2	2	✓				Multiple pump configuration, Assembly in end position			● ● ● ● ● ● ● ○
13	1	3	✓	!	!	!	Multiple pump configuration, Assembly in intermediate position			● ● ● ● ● ● ● ○
23	2	3	✓	!	!	!	Multiple pump configuration, Assembly in intermediate position			● ● ● ● ● ● ● ○
33	3	3	✓			!	Multiple pump configuration, Assembly in end position			● ● ● ● ● ● ● ○

Symbol	045 055 065 085 100 145 175		●	○
Status	Nominal sizes at development stage/prototype status	Option with a tendency towards higher & more rapid availability		
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12.

MODELCODE ITEM      Power Takeoff (PTO) End - Mounting Flange

Item	Feature													
12.	Power takeoff (PTO) end - Mounting flange													
	Characteristic					Nominal size			Spec.					
	Multiple pump configurations													
	LHY factory multiple pumps	Customer assembled multiple pumps	Standard	Size [mm]	Horizontal thread pattern, number of threads	Square thread pattern, number of threads	045	055	065	085	100	115	145	175
00	-	-	-	-	Blind plate / No Power Takeoff (PTO)		●	●	●	●	●	○	○	
A2	✓	✓		SAE A 82	2x M10 14 mm deep	No threads	●	●	○	○	○	○	○	○
B2	✓		ISO 3019-1 / SAE J744	SAE B 101	2x M12, 16 mm deep	4x M12, 16 mm deep, not in use	●	●	●	●	●	●	○	
B4	✓				2x M12, 16 mm deep, not in use	4x M12, 16 mm deep	●	●	●	●	●	●	○	
B6		✓			2x M12, 16 mm deep, not in use	4x M12, 16 mm deep	●	●	●	●	●	●	○	

Item	Feature													
	Power takeoff (PTO) end - Mounting flange													
	Characteristic					Nominal size			Spec.					
	Multiple pump configurations													
	LHY factory multiple pumps	Customer assembled multiple pumps	Standard	Size [mm]	Horizontal thread pattern, number of threads	Square thread pattern, number of threads	045	055	065	085	100	115	145	175
C2	✓			127	2x M16, 22 mm deep	4x M16, 16 mm deep, not in use	○	○	●	●	●	●	○	○
C4	✓		SAE C	127	2x M16, 22 mm deep, not in use	4x M12, 16 mm deep	○	○	●	●	●	●	○	○
C6		✓	ISO 3019-1 / SAE J744	127	2x M16, 22 mm deep	4x M12, 16 mm deep	○	○	●	●	●	●	○	○
D4	✓	✓		SAE D 152	No threads, not in use	4x M20, 22 mm deep						●	●	○
E4	✓	✓		SAE E 165	No threads, not in use	4x M22								○

Symbol	045 055 065 085 100 145 175	●	●	○
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13.

MODELCODE ITEM

Power Takeoff (PTO) End - Drive coupling

Item	Feature													
13.	Power takeoff (PTO) end - Drive coupling													
	Characteristic					Nominal size			Spec.					
	Internal gearing		PTO closing cover											
	Standard	Number of teeth	Spline pitch	Ident code	Dust cover for transportation and storage	Blind plate for operation without PTO	045	055	065	085	100	115	145	175
00	-	-	-	-	✓	Blind plate / No PTO	Compatibility with PTO-Mount.Flange. 00 A2 B2 B4 B6 C2 C4 C6 D4 E4 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓							
S2		9		16-4	✓	Drive coupling	Compatibility with PTO-Mount.Flange. 00 A2 B2 B4 B6 C2 C4 C6 D4 E4 ✓ ✓							
S3	ISO 3019-1/SAE J744	11	16/32	19-4	✓	Drive coupling	Compatibility with PTO-Mount.Flange. 00 A2 B2 B4 B6 C2 C4 C6 D4 E4 ✓ ✓							
S4		13		22-4	✓	Drive coupling	Compatibility with PTO-Mount.Flange. 00 A2 B2 B4 B6 C2 C4 C6 D4 E4 ✓ ✓ ✓ ✓							
S5		15		25-4	✓	Drive coupling	Compatibility with PTO-Mount.Flange. 00 A2 B2 B4 B6 C2 C4 C6 D4 E4 ✓ ✓ ✓ ✓							

Item	Feature													
	Power takeoff (PTO) end - Drive coupling													
	Characteristic					Nominal size			Spec.					
	Internal gearing		PTO closing cover											
	Standard	Number of teeth	Spline pitch	Ident code	Dust cover for transportation and storage	Blind plate for operation without PTO	045	055	065	085	100	115	145	175
S7		14	12/24	32-4	✓	Drive coupling	Compatibility with PTO-Mount.Flange. 00 A2 B2 B4 B6 C2 C4 C6 D4 E4 ✓							
S8		21	16/32	35-4	✓	Drive coupling	Compatibility with PTO-Mount.Flange. 00 A2 B2 B4 B6 C2 C4 C6 D4 E4 ✓							
S9	ISO 3019-1/SAE J744	17	12/24	38-4	✓	Drive coupling	Compatibility with PTO-Mount.Flange. 00 A2 B2 B4 B6 C2 C4 C6 D4 E4 ✓							
V6		23	16/32	38-4	✓	Drive coupling	Compatibility with PTO-Mount.Flange. 00 A2 B2 B4 B6 C2 C4 C6 D4 E4 ✓							
T1		13	8/16	44-4	✓	Drive coupling	Compatibility with PTO-Mount.Flange. 00 A2 B2 B4 B6 C2 C4 C6 D4 E4 ✓							

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

Modelcode & Availability

Your choice & Inquiry

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14.

High Pressure Work Ports

Item	Feature				Nominal size								Spec.
14.	High pressure work ports												
	Characteristic												
	Standard		Orientation		045	055	065	085	100	115	145	175	
			Radial										
R	ISO 6162-2		✓	SAE Flange ports, metric fastening threads	●	●	●	●	●	●	●	○	
T	ISO 11926 (ANSI)		✓	Threaded ports, O-ring sealed									

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

Modelcode & Availability

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15.

Auxiliary Ports

Item	Feature		Nominal size							Spec.	
15.	Auxiliary ports										
	Characteristic		045	055	065	085	100	115	145	175	
	Standard		●	●	●	●	●	●	●	●	
M	ISO 6149-1	Threaded ports, ISO metric metric fastening threads  Location and dimensions see installation drawing	●	●	●	●	●	●	●	●	○
A	ISO 11926 (ANSI)	Threaded ports, O-ring sealed									

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/ prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request

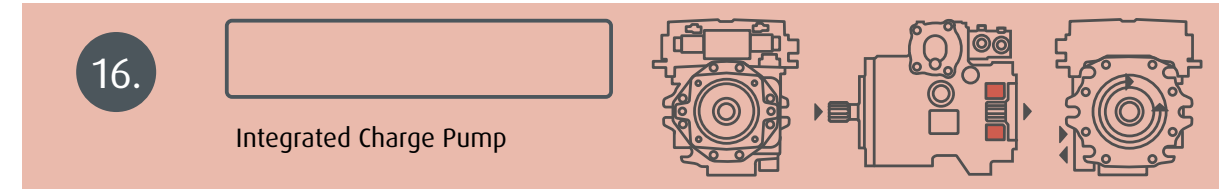


CONFIGURATION

Modelcode & Availability

Your choice & Inquiry

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Item	Feature		Nominal size							Spec.	
16.	Integrated charge pump		045	055	065	085	100	115	145	175	
	Characteristic										
	Displacement [cc/rev]										
00	00	No integrated charge pump	●	●	●	●	●	●	○	○	
13	13	Integrated charge pump, Design: Internal gear pump	○	○							
17	17		●	●	●						
22	22				●	●	●				
26	26				○	○	○	○			
30	30					●	●	●			
34	34						●				
41	41								○	○	
51	51								●	○	

Item	Feature		Nominal size							Spec.	
			045	055	065	085	100	115	145	175	
	Characteristic										
	Displacement [cc/rev]										

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

Modelcode & Availability

Your choice & Inquiry

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17.

MODELCODE  
ITEM

Swash Angle Sensor

Item	Feature			Nominal size								Spec.
17.	Swash angle sensor											
	Swash angle sensor	Prepared for swash angle sensor	Without swash angle sensor	045	055	065	085	100	115	145	175	
00			✓ No swash angle sensor; Option does not allow the subsequent installation of the sensor	●	●	●	●	●	●	●	○	
AD	✓		Swash angle sensor; Function: Swash angle, Connector: Deutsch  <i>Please note!</i> <i>If you've already chosen a connector type at modelcode item 07, please avoid mixing it with a different type here, if possible.</i>	●	●	●	●	●	●	○	○	
AA	✓		Swash angle sensor; Function: Swash angle, Connector: AMP Junior Timer  <i>Please note!</i> <i>If you've already chosen a connector type at modelcode item 07, please avoid mixing it with a different type here, if possible.</i>									

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

Modelcode & Availability

Your choice & Inquiry

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18.

MODELCODE  
ITEM

Pressure & Temperature Sensors

Item	Feature										Nominal size								Spec.	
	Characteristic																			
18.	Pressure & temperature sensors																			
	Sensor Installation		Pressure monitoring		Temperature monitoring		Voltage (range)		Connector											
	Sensors installed	No Sensors installed	High pressure at port Ma	High pressure at port Mb	Temperature at port Ma	Temperature at port Mb	Power supply [VDC]	Output signal [VDC]	Deutsch	Connector										
00		✓									No pressure sensors; Option does allow the subsequent installation of pressure sensors, Mounting opening closed with plastic cover									
PD	✓		✓	✓			8...36	1...5	✓		2x Pressure sensors <i>Please note! If you've already chosen a connector type at modelcode item 07, please avoid mixing it with a different type here, if possible.</i>									
PP	✓		✓	✓			5	0.5...4.5	✓		2x Pressure sensors <i>Please note! If you've already chosen a connector type at modelcode item 07, please avoid mixing it with a different type here, if possible.</i>									
PT	✓		✓	✓	✓		5	0.5...4.5	✓		2x Pressure sensors with 1x Temperature sensor integrated in pressure sensor <i>Please note! If you've already chosen a connector type at modelcode item 07, please avoid mixing it with a different type here, if possible.</i>									

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/ prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

Modelcode & Availability

Your choice & Inquiry

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19.

Oil Filtration

Item	Feature	Nominal size							Spec.						
19.	Oil filtration														
	Overview oil filtration														
	Hydraulic circuit	Oil filter	Clogging Ind. Inlet Port [F]	Outlet Port [P]	Inlet Port [S]	Charge pump	Oil filter	045	055	065	085	100	115	145	175
S	 Remote filtration via suction line				✓	✓		●	●	●	●	●	●	●	○
	Compatibility with charge pump	00	13	17	22	26	30	34	41	51					
		✓	✓	✓	✓	✓	✓	✓	✓	✓					
D	 Remote filtration via charge pressure line		✓	✓	✓	✓		●	●	●	●	●	●	●	○
	Compatibility with charge pump	00	13	17	22	26	30	34	41	51					
		✓	✓	✓	✓	✓	✓	✓	✓	✓					
E	 Remote filtration via charge pressure line, <b>remote charge pump</b>		✓	✓		✓	✓	●	●	●	●	●	●	●	○
	Compatibility with charge pump	00	13	17	22	26	30	34	41	51					
		✓													

Item	Feature	Nominal size							Spec.						
	Overview oil filtration														
	Hydraulic circuit	Oil filter	Clogging Ind. Inlet Port [F]	Outlet Port [P]	Inlet Port [S]	Charge pump	Oil filter	045	055	065	085	100	115	145	175
F	 Integrated filtration via charge pressure line		✓			✓		●	●	●	●	●	●	●	○
	Compatibility with charge pump	00	13	17	22	26	30	34	41	51					
		✓	✓	✓	✓	✓	✓	✓	✓	✓					
C	 Integrated filtration via charge pressure line with electrical clogging indication signal		✓	✓		✓		○	○	○	○	○	○	○	○
	Compatibility with charge pump	00	13	17	22	26	30	34	41	51					
		✓	✓	✓	✓	✓	✓	✓	✓	✓					

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

Modelcode & Availability

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20.

MODELCODE  
ITEM

Shaft seal

Item	Feature	Nominal size								Spec.
20.	Shaft seal									
	Characteristic	045	055	065	085	100	115	145	175	
0	Standard	●	●	●	●	●	●	●	○	
H	Heavy duty, Option requires consultation with LHY Powertrain and detailed specifications	○	○	○	●	●	●	○	○	

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

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21.

MODELCODE  
ITEM

Additional Option 1

Item	Feature	Nominal size								Spec.
21.	Additional option 1									
	Characteristic	045	055	065	085	100	115	145	175	
00	Not applicable	●	●	●	●	●	●	●	○	

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/ prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

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22.

MODEL CODE  
ITEM

**V**

Seal Material

Item	Feature	Nominal size								Spec.
22.	Seal material									
	Characteristic	045	055	065	085	100	115	145	175	
V	FKM (Viton)	●	●	●	●	●	●	●	○	

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/ prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

Modelcode & Availability

Your choice & Inquiry

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23.

MODELCODE  
ITEM

Corrosion Protection or Paint

Item	Feature			Nominal size							Spec.	
	Corrosion protection	Primer	Top coat	045	055	065	085	100	115	145		175
23.	Corrosion protection or paint											
R00	Anticorit RPO-3002											○
P01		oxide red, RAL 3009		Primer	●	●	●	●	●	●	●	○
P04		pure white RAL 9010		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	●	●	●	●	●	●	●	○

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/ prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

Modelcode & Availability

Your choice & Inquiry

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24.

MODELCODE  
ITEM

Primary Pressure Relief &  
Pressure Cut-off

Item	Characteristics				Nominal size	Spec.																																																																																																								
24.	Primary pressure relief & pressure cut-off																																																																																																													
	Prim. pressure relief valve (obligatory) Max system pressure $p_{max}$ [bar]	Pressure cut-off (optional) Nominal system pressure $p_{nom}$ [bar]	<p><b>General overview &amp; definition</b></p>		<p><b>Example scenario*</b></p>																																																																																																									
			<p>The primary high-pressure relief (mandatory) controls the maximum system pressure (<math>p_{max}</math>). The pressure cut-off (optional) controls the nominal system pressure (<math>p_{nom}</math>). The two setting values can be selected as a defined pairing. Deviating settings are only possible after consultation with LHY. If you have not selected pressure cut-off (model code item 06), there is no systemic control of the nominal pressure. Thus, without a pressure cut-off it must therefore be ensured by other means that the nominal permissible limit values of all system components are complied with under all operating conditions.</p> <p><b>Primary high-pressure relief (maximum system pressure control <math>p_{max}</math>)</b></p> <p>The reference value for the primary high-pressure protection is the feed pressure. When selecting in the model code, you specifically define the opening pressure of the HP valves. Regardless of the nominal size, this refers to a theoretical delivery volume of 20 l/min and a feed pressure of 15 bar. Deviations may occur if the operating parameters differ.</p> <p><b>Pressure cut-off (nominal system pressure control <math>p_{nom}</math>)</b></p> <p>The reference value for the pressure cut-off is the tank pressure. Therefore, when selecting the appropriate setting, the feed pressure level plus the system design must always be taken into account in order to define the remaining safety up to the maximum system pressure (<math>p_{max}</math>). In general, LHY recommends not falling below a safety level of at least 25 bar. Therefore, ensure a minimum feed pressure of 15 bar under all operating conditions. Please contact us if you have different requirements.</p>		<p>In the example scenario, a setting pairing of 465 bar (<math>p_{max}</math>) and 440 bar (<math>p_{nom}</math>) is selected. Consequently, a feed pressure level of 24 bar results in a system design (<math>dp</math>) of 416 bar.</p> <p>As the feed pressure is 9 bar higher than the factory reference value, the <math>p_{max}</math> value is also 9 bar higher than specified in the selection and indicated on the pressure relief valves.</p> <p>The resulting safety of 34 bar is within the range recommended by LHY.</p>																																																																																																									
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Symbol	<span style="background-color: #0070c0; color: white; padding: 2px;">045</span> <span style="background-color: #0070c0; color: white; padding: 2px;">055</span> <span style="background-color: #0070c0; color: white; padding: 2px;">065</span> <span style="background-color: #0070c0; color: white; padding: 2px;">085</span> <span style="background-color: #0070c0; color: white; padding: 2px;">100</span> <span style="background-color: #0070c0; color: white; padding: 2px;">145</span> <span style="background-color: #0070c0; color: white; padding: 2px;">175</span>	●	●	○
Status	Nominal sizes at development stage/prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request

\*The example scenario shown here is only intended to illustrate the interdependence between the primary high-pressure relief and / or pressure cut-off and the different pressure conditions in the hydraulic system. It does NOT represent a generally recommended or specified choice of the primary high-pressure relief and/or pressure cut-off.



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.

25.

MODELCODE  
ITEM

Charge Pressure Relief Setting

Item	Feature	Nominal size							Spec.										
	Characteristic	045	055	065	085	100	115	145	175										
19	<p><b>19 bar</b></p> <p>Compatibility with Displ. Controller</p> <table border="1"> <tr> <td>EP</td> <td>HP</td> <td>MP</td> <td>ED</td> <td>HD</td> </tr> <tr> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> </table>	EP	HP	MP	ED	HD	✓	✓	✓	✓	✓	○	○	○	○	○			
EP	HP	MP	ED	HD															
✓	✓	✓	✓	✓															
23	<p><b>23 bar</b></p> <p>Compatibility with Displ. Controller</p> <table border="1"> <tr> <td>EP</td> <td>HP</td> <td>MP</td> <td>ED</td> <td>HD</td> </tr> <tr> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> </table>	EP	HP	MP	ED	HD	✓	✓	✓	✓	✓					●	●	○	
EP	HP	MP	ED	HD															
✓	✓	✓	✓	✓															
24	<p><b>24 bar</b></p> <p>Compatibility with Displ. Controller</p> <table border="1"> <tr> <td>EP</td> <td>HP</td> <td>MP</td> <td>ED</td> <td>HD</td> </tr> <tr> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> </table>	EP	HP	MP	ED	HD	✓	✓	✓	✓	✓	●	●	●	●	●			
EP	HP	MP	ED	HD															
✓	✓	✓	✓	✓															
27	<p><b>27 bar</b></p> <p>Compatibility with Displ. Controller</p> <table border="1"> <tr> <td>EP</td> <td>HP</td> <td>MP</td> <td>ED</td> <td>HD</td> </tr> <tr> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> </table>	EP	HP	MP	ED	HD	✓	✓	✓	✓	✓	○	○	○	○	○			
EP	HP	MP	ED	HD															
✓	✓	✓	✓	✓															

Symbol	045 055 065 085 100 145 175	●	●	○
Status	Nominal sizes at development stage/ prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request





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.

**27.**

MODEL CODE  
ITEM

Additional Setting Option 1

Item	Feature	Nominal size								Spec.
		045	055	065	085	100	115	145	175	
27.	Additional setting option 1									
99	Not applicable	●	●	●	●	●	●	●	○	

Symbol	<span style="background-color: #0070c0; color: white; padding: 2px;">045</span> <span style="background-color: #0070c0; color: white; padding: 2px;">055</span> <span style="background-color: #0070c0; color: white; padding: 2px;">065</span> <span style="background-color: #0070c0; color: white; padding: 2px;">085</span> <span style="background-color: #0070c0; color: white; padding: 2px;">100</span> <span style="background-color: #0070c0; color: white; padding: 2px;">145</span> <span style="background-color: #0070c0; color: white; padding: 2px;">175</span>	<span style="background-color: #92d050; color: black; padding: 2px;">●</span>	●	○
Status	Nominal sizes at development stage/ prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



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.

**28.**  
MODEL CODE  
ITEM

Additional Setting Option 2

Item	Feature	Nominal size							Spec.
		045	055	065	085	100	115	145	
28.	Additional setting option 2								
99	Not applicable	●	●	●	●	●	●	○	

Symbol	<span style="background-color: #00aaff; color: white; padding: 2px;">045</span> <span style="background-color: #00aaff; color: white; padding: 2px;">055</span> <span style="background-color: #00aaff; color: white; padding: 2px;">065</span> <span style="background-color: #00aaff; color: white; padding: 2px;">085</span> <span style="background-color: #00aaff; color: white; padding: 2px;">100</span> <span style="background-color: #00aaff; color: white; padding: 2px;">145</span> <span style="background-color: #00aaff; color: white; padding: 2px;">175</span>	<span style="background-color: #00aaff; color: black; padding: 2px;">●</span>	<span style="color: black; padding: 2px;">●</span>	<span style="color: black; padding: 2px;">○</span>
Status	Nominal sizes at development stage/ prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request



CONFIGURATION

Modelcode & Availability

Your choice & Inquiry

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.

29.

MODELCODE  
ITEM

Additional Setting Option 3

Item	Feature	Nominal size								Spec.
		045	055	065	085	100	115	145	175	
29.	Additional setting option 3									
99	Not applicable	●	●	●	●	●	●	●	○	

Symbol	<span style="background-color: #00aaff; color: white; padding: 2px;">045</span> <span style="background-color: #00aaff; color: white; padding: 2px;">055</span> <span style="background-color: #00aaff; color: white; padding: 2px;">065</span> <span style="background-color: #00aaff; color: white; padding: 2px;">085</span> <span style="background-color: #00aaff; color: white; padding: 2px;">100</span> <span style="background-color: #00aaff; color: white; padding: 2px;">145</span> <span style="background-color: #00aaff; color: white; padding: 2px;">175</span>	<span style="background-color: #00aaff; color: black; padding: 2px;">●</span>	<span style="color: black; padding: 2px;">●</span>	<span style="color: black; padding: 2px;">○</span>
Status	Nominal sizes at development stage/ prototype status	Option with a tendency towards higher & more rapid availability		
Availability	Availability refers to a limited volume of units	✓	✓	Upon request





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.

31.

Variant Configuration

Item	Feature											
31.	Variant configuration (may require further information)											
					045	055	065	085	100	115	145	175
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"	○	○	○	○	○	○	○	○	○	

Symbol	045	055	065	085	100	145	175	●	●	○
Status	Nominal sizes at development stage/prototype status		Option with a tendency towards higher & more rapid availability							
Availability	Availability refers to a limited volume of units		✓	✓	Upon request					



# Configuration | Your choice & Inquiry

CONFIGURATION

Modelcode & Availability

Your choice & Inquiry

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.

TYPE		NOMINAL SIZE		DIR. OF ROT.		CONTROL				ELECTRICAL INTERFACE		MECH. INTERFACE - FRONT END		MULTIPLE PUMP <sup>*</sup>	PTO								
01.	CPV	02.		03.		04.		05.		06.		07.		08.		09.		10.		11.		12.	
PTO		HYDRAULIC INTERFACE		CHARGE PUMP		SENSORS				FILTRATION		SHAFT SEAL	ADD. OPTION	SEAL MATERIAL	SURF. TREATM.	SETTINGS							
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.	V	23.		24.	
SETTINGS		ADD. SETTING OPTIONS				MODELCODE		VARIANT CONF.															
25.		26.		27.		28.		29.		30.	A5	31.											

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 configuration	(Multiple) pump configuration	according to model code item 11.
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.

To be able to save the content of the form fields without problems, please save this data sheet on local drive before starting to configure.

Submit the completed form. Your LHY sales partner will come back to you with an offer timely.

<sup>\*</sup>In the case of a multiple pump configuration chosen here (choice 12, 22, 13, 23 or 33), please ensure to fill out and submit one inquiry form for each pump of the configuration.



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