



XR RANGE

Fixed displacement pumps for trucks



•
Low
noise

•
Compact
design

•
High
performance

POWER SOLUTION

FIXED DISPLACEMENT PUMPS FOR TRUCKS | XR SERIES

FEATURES AND BENEFITS



THE PRODUCT

- Dual-material cylinder head
- Easy change of rotation direction
- 7-piston design
- Original swash plate – barrel synchronization
- Use of high mechanical strength materials
- Reinforced sealing
- High overall efficiency
- Compact design
- Suction port supplied with the pump
- Low noise level
- Flange and shaft for truck applications, according to DIN
- ISO 14
- High self-priming speed

- THE APPLICATIONS

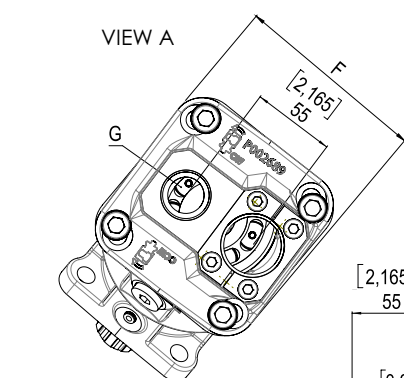
Our XR pump series is designed for truck-mounted equipment (truck cranes, forestry cranes, arms, skip loaders, stabilizer cylinders), winter service equipment (salt spreaders, snow plows, blowers), fire trucks and more.

An ideal product for heavy-duty applications, thanks to its many innovative features. Increased service life and reliability have driven the development of this new generation of pumps.

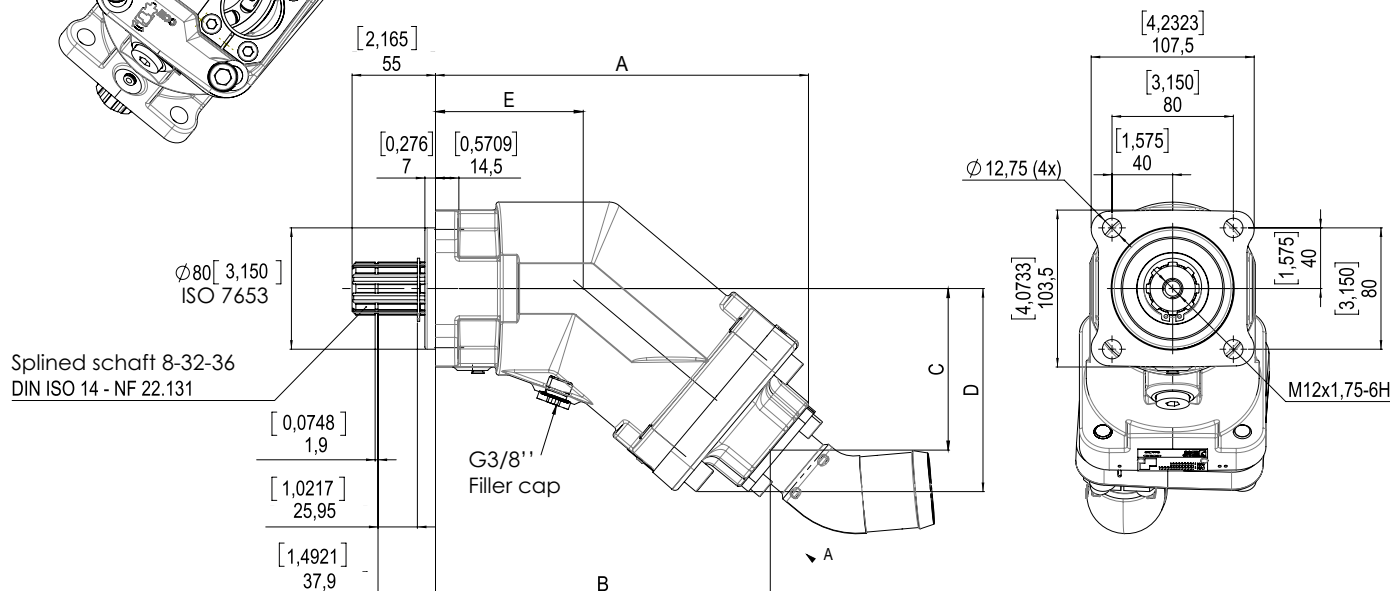
Pump reference	Direction of rotation	Displacement	Max. continuous pressure	Max. peak pressure < 5 seconds	Max. speed ⁽¹⁾	Theoretical torque at Max. continuous pressure	Weight		Overhang torque	
							Without inlet fitting	With inlet fitting 2''	Without inlet fitting	With inlet fitting 2''
		(cc/rev)	(bar)	(bar)	(rpm)	(N.m)	(kg)	(kg)	(N.m)	(N.m)
XR63	Right (CW)	63,1	400	450	2350	401,1	11,4	11,98	11,97	12,77
	Left (CCW)									
XR80	Right (CW)	80,4	400	450	2350	511,5	14,89	15,47	17,21	18,73
	Left (CCW)									
XR108	Right (CW)	108,3	400	450	2000	689,1	15,16	15,74	17,88	19,07
	Left (CCW)									
XR130	Right (CW)	129,9	400	450	2000	826,2	15,39	15,97	18,01	19,55
	Left (CCW)									

(1) At absolute pressure 1 bar, ISO VG46 fluid at 25°C.

DIMENSIONS IN MM [INCHES]



Pump reference	A	B	C	D	E	F	G
XR63	220,7 [8.6889]	196,6 [7.7402]	95,2 [3.7480]	120,1 [4.7283]	85,7 [3.3740]	111,2 [4.3779]	G3/4"
XR80 / 108	245,9 [9.6811]	220,7 [8.6889]	106,5 [4.1929]	133,9 [5.2716]	97,4 [3.8346]	127,7 [5.0275]	G1"
XR130	248,2 [9.7716]	223 [8.779]	108,5 [4.2716]	136,5 [5.3740]	97,4 [3.8346]	127,7 [5.0275]	G1"



Dimensions in mm [inches] are given as an indication.

ORDER CODE SYSTEM OF XR SERIES PUMPS

XR	...	A1	H1	P0	...	...	...	To define your pump's model code, complete parameters 02, 05, 07, and 08 based on the desired options (refer to the table below).		
01	02	03	04	05	06	07	08			
Pump										
01	XR bent axis piston pump							XR		
Displacement [cc/rev]										
02						063	080	108	130	...
Mounting flange										
03	NF ISO 7653, 4 ports					•	•	•	•	A1
Shaft										
04	DIN ISO 14 - NF 22.131, spline 8-32-36, without through-hole					•	•	•	•	H1
End cover										
05	Rear ports					G3/4"	G1"			P0
Direction of rotation (See illustration below)										
06	Left (counterclockwise rotation)					•	•	•	•	L
	Right (clockwise rotation)					•	•	•	•	R
Shaft seal material										
07	FKM					•	•	•	•	F
	NBR					•	•	•	•	N
Suction fitting kit										
08	45°	1"1/2	Ref. P002790			•	•	-	-	V1
		1"3/4	Ref. P002788			•	•	-	-	V3
		2"	Ref. P002787			•	•	•	•	V4
		2"1/2	Ref. P002786			•	•	•	•	V5
		3"	Ref. P003075			•	•	•	•	V6
	90°	1"1/2	Ref. P003197			•	•	-	-	J1
		2"	Ref. P003196			•	•	•	•	J4
		2"1/2	Ref. P003195			•	•	•	•	J5

DIRECTION OF ROTATION SELECTION

Clockwise (CW)

Counter-clockwise (CCW)



XR ACCESSORIES | BPR BY-PASS VALVE

For XR pump applications where the pump is driven by a continuous running PTO (which cannot be disengaged) this solution allows the continuous running of the pump:

- Without creating problems of fluid overheating;
- Without affecting pump service life;
- With no modifications necessary to the hydraulic circuit of the equipment.

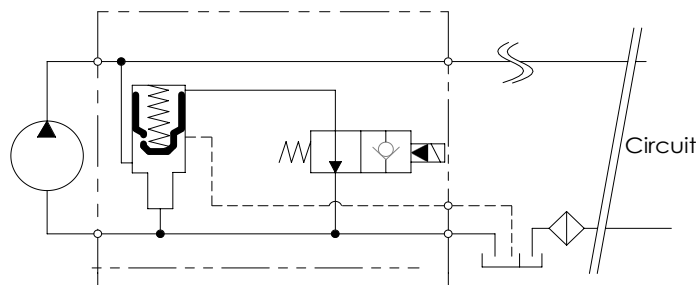
OPERATING MODE OF THE BY-PASS VALVE

The by-pass valve is a solenoid valve.

When not activated, it enables pump output to link up to pump inlet.

When it is activated, the pump operates normally (output flow).

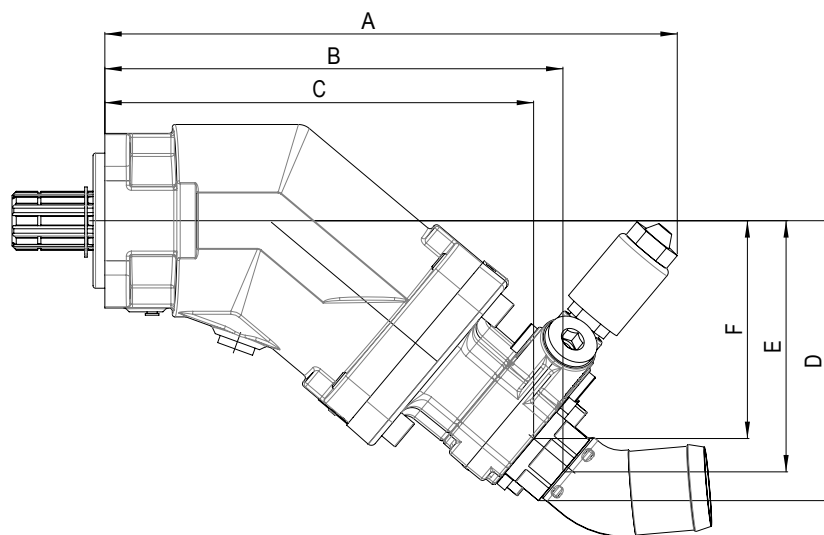
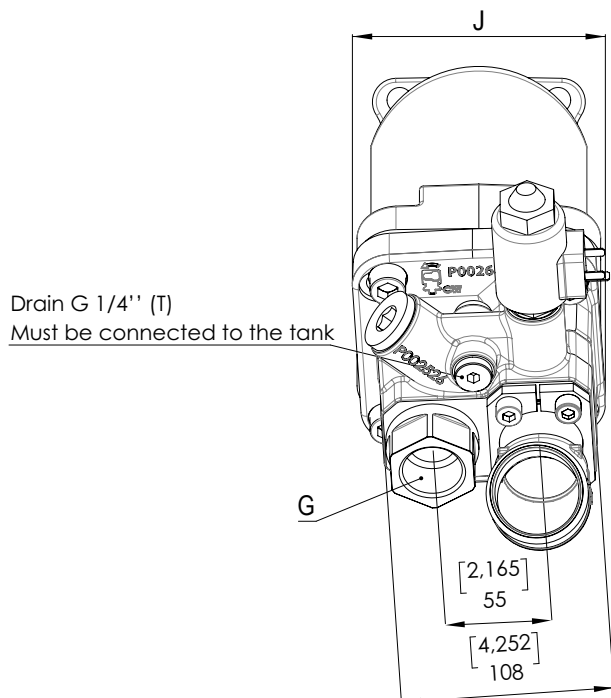
A drain line has to be installed between the by-pass valve and the hydraulic tank of the vehicle to ensure sufficient oil circulation and a good cooling into the pump. In any case, the connection to the tank must be done below the oil level.



Part number	Pump reference	Voltage	Connector
BPR63-P002965-B	XR63	24 Vdc	HIRSCHMANN EN175301-803-A
BPR63-P003345-A			DEUTSCH DT04-2P
BPR80-P002940-B	XR80 to XR130		HIRSCHMANN EN175301-803-A
BPR80-P003350-A			DEUTSCH DT04-2P

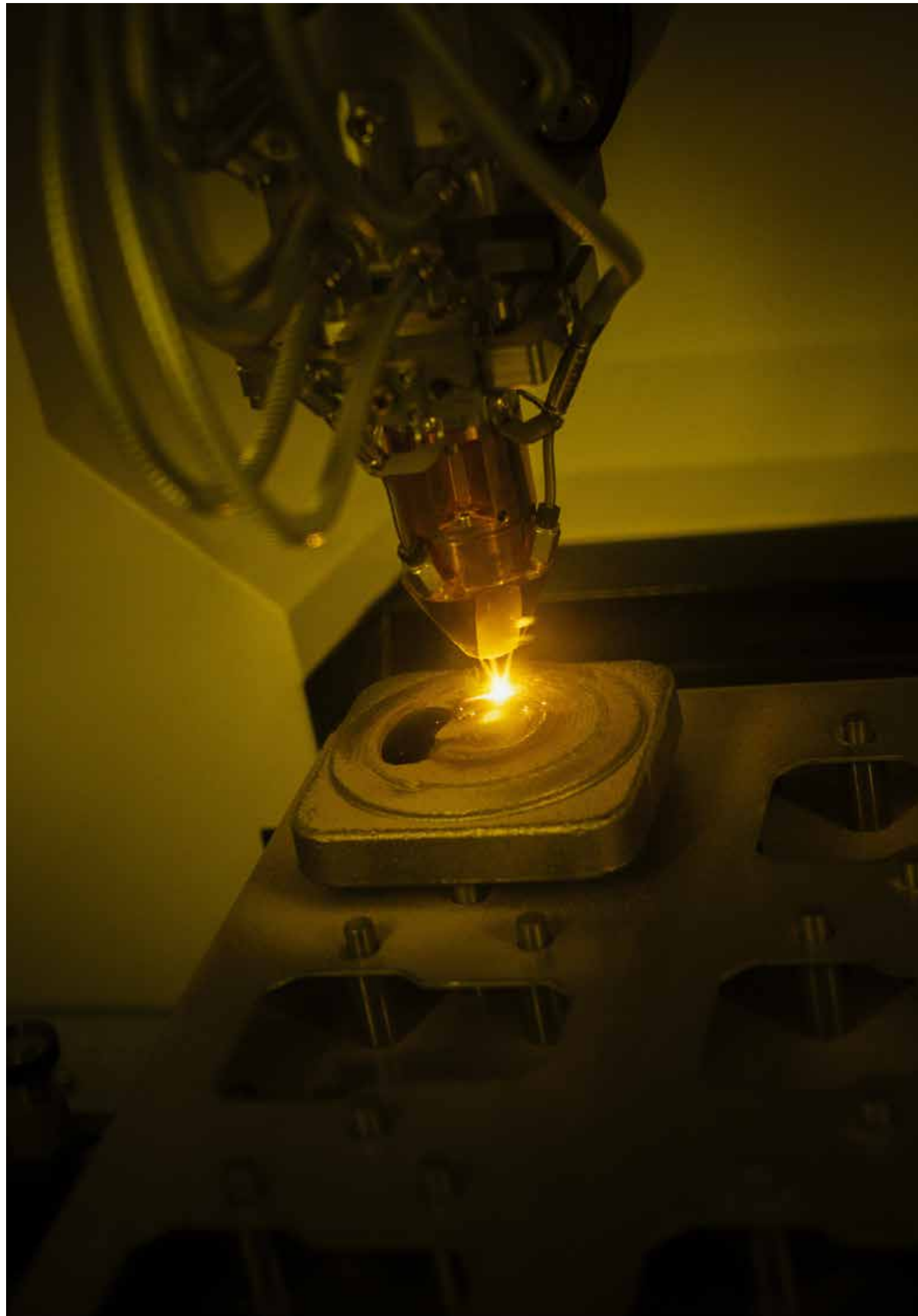
DIMENSIONS IN MM [INCHES]

Pump reference	A	B	C	D	E	F	G	J
XR63	314,2 [12.3701]	247,2 [9.7323]	229 [9.016]	154,8 [6.0945]	137,5 [5.4134]	118,8 [4.6772]	G3/4"	111,2 [4.3779]
XR80 / 108	339,2 [13.3543]	271,4 [10.6850]	254 [10]	165,8 [6.5276]	148,8 [5.8583]	129,1 [5.0827]	G1"	127,7 [5.0275]
XR130	340,9 [13.4212]	273,7 [10.7756]	256,3 [10.0905]	167,8 [6.6063]	150,7 [5.9331]	131 [5.157]	G1"	127,7 [5.0275]



XR OVERHANG TORQUE WITH BYPASS

Pump reference	Weight		Overhang torque	
	Without inlet fitting (kg)	With inlet fitting 2" (kg)	Without inlet fitting (N.m)	With inlet fitting 2" (N.m)
XR63	14,21	14,83	17,97	19,63
XR80	17,62	18,24	24,54	26,34
XR108	17,91	18,54	24,68	26,50
XR130	18,16	18,78	25,23	27,06



FIXED DISPLACEMENT PUMPS FOR TRUCKS | XRT SERIE

FEATURES AND BENEFITS



THE PRODUCT

Double flow piston pump 68 + 68 cc/rev
 2 x 5-piston design
 Original swash plate – barrel synchronization
 Use of high mechanical strength materials
 Reinforced sealing
 High overall efficiency
 Compact design
 Inlet fitting supplied with the pump
 Low noise level
 Flange and shaft for truck applications, according to DIN ISO 14
 High self-priming speed
 Mounting on engine rear PTO possible with BPT by-pass valve

THE APPLICATIONS

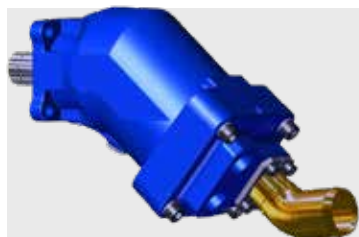
Our XRT pump series is designed for truck-mounted equipment (truck cranes, forestry cranes, arms, skip loaders, stabilizer cylinders), winter service equipment (salt spreaders, snow plows, blowers), fire trucks and more.

Our new bent-axis pump is the ideal solution for applications requiring two independent circuits, and it is specially suited for mounting on a disengageable PTO or engine rear PTO (with BPT BY-PASS).

Pump reference	Direction of rotation	Displacement	Max. continuous pressure	Max. peak pressure < 5 seconds	Max. speed ⁽¹⁾	Theoretical torque at Max. continuous pressure	Weight		Overhang torque	
		(cc/rev)	(bar)	(bar)	(rpm)	(N.m)	Without inlet fitting	With inlet fitting 2"	Without inlet fitting	With inlet fitting 2"
XRT6868-P003380	Right (CW)	68 + 68	380	420	1400	823	18,7	19,3	23,8	24,6

(1) At absolute pressure 1 bar, ISO VG46 fluid at 25°C.

HOW DOES IT WORK

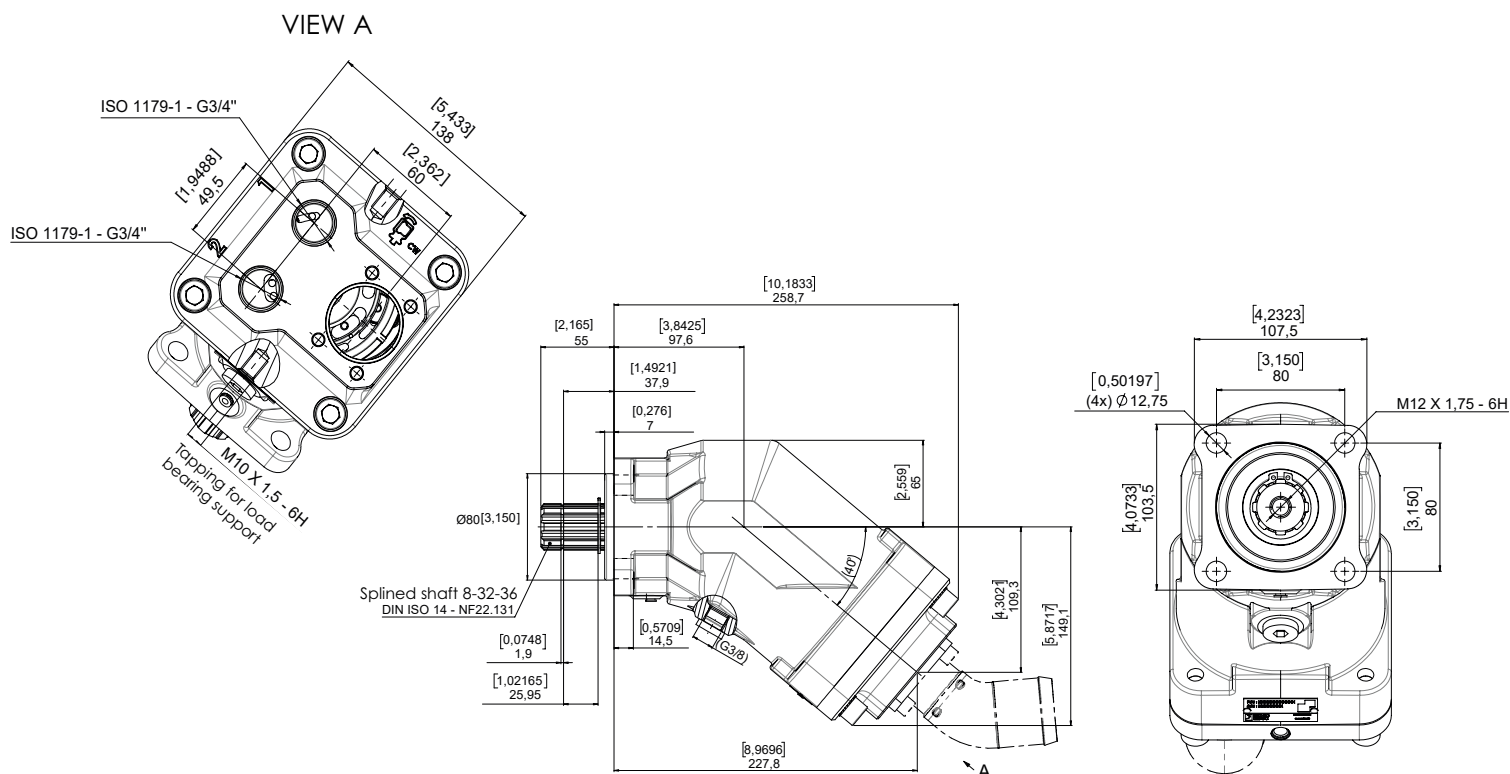


XRT6868

Watch the 3D animation video



DIMENSIONS IN MM [INCHES]



Dimensions in mm [inches] are given as an indication.

XRT ACCESSORIES | BPT BY-PASS VALVE

For XRT pump applications where the pump is driven by a continuous running PTO (which cannot be disengaged), this solution allows the continuous running of the pump:

- Without creating problems of fluid overheating;
- Without affecting pump service life;
- With no modifications necessary to the hydraulic circuit of the equipment.

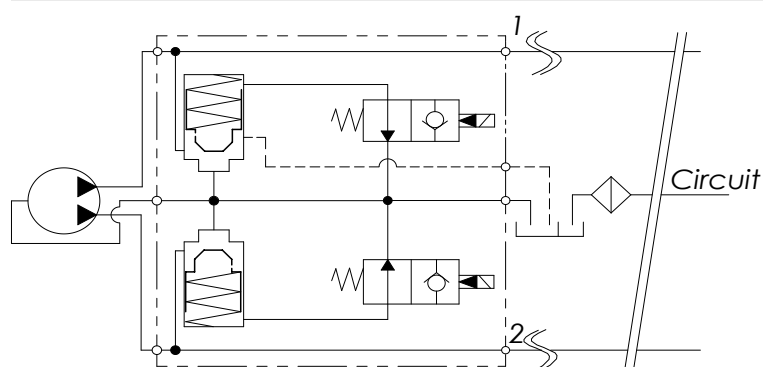


OPERATING MODE OF THE BY-PASS VALVE

The by-pass valve is a solenoid valve. When not activated, it allows both pump outputs to link up to pump inlet at the same time. It has 3 modes of activation:

- 2-way activated: It sets the pump to normal operation,
- «Port 1» activated: It allows the discharge marked «1» to be put in a normal operating situation. The discharge «2» is connected to the pump suction,
- «Port 2» activated: This puts the discharge marked «2» in normal operation. Discharge «1» is connected to the pump suction.

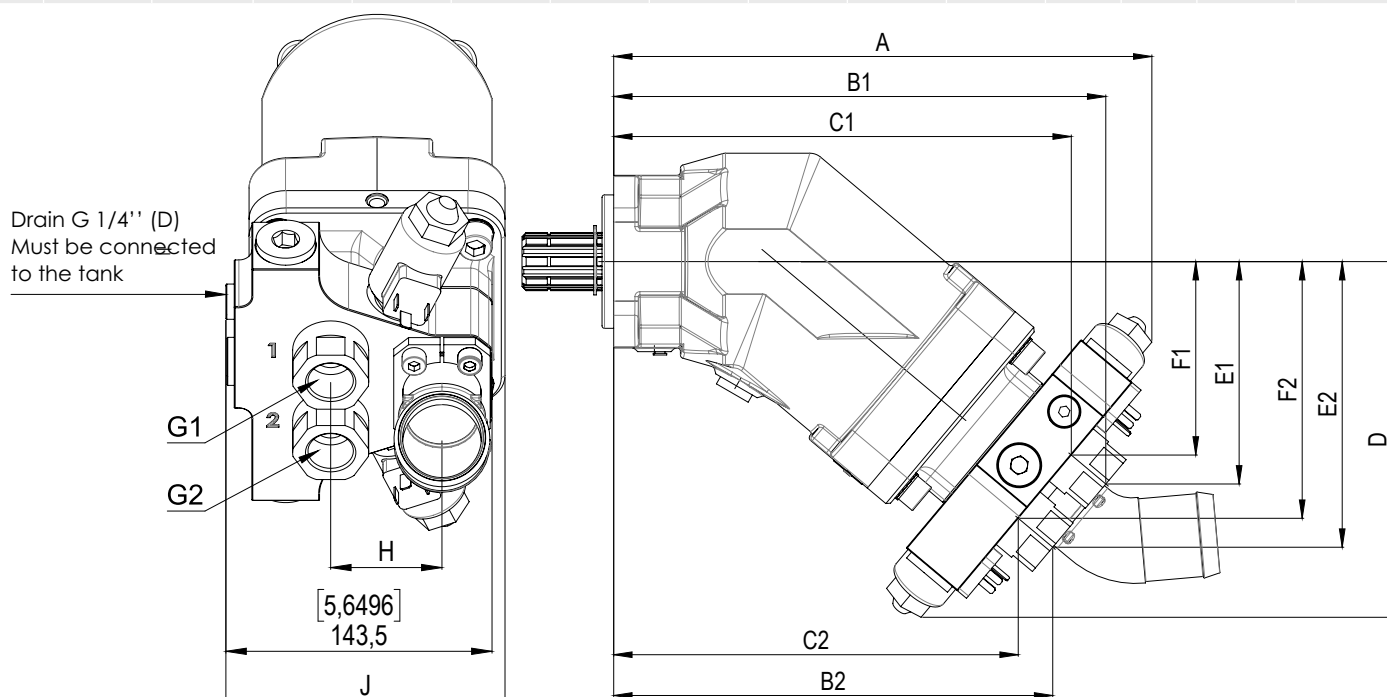
A drain line has to be installed between the by-pass valve and the hydraulic tank of the vehicle to ensure sufficient oil circulation and a good cooling into the pump. In any case, the connection to the tank must be done below the oil level.



Part number	Pump reference	Voltage	Connector
BPT6868-P002811	XRT6868	24 Vdc	DEUTSCH DT04-2P
BPT6868-P002814			HIRSCHMANN EN175301-803-A

DIMENSIONS IN MM [INCHES]

Pump reference	A	B1	B2	C1	C2	D	E1	E2	F1	F2	G1	G2	H	J
XRT6868	322,7 [12.7047]	295,1 [11.6181]	263,3 [10.3661]	274,4 [10.8031]	242,6 [9.5512]	213,3 [8.3976]	133,3 [5.2480]	171,3 [6.7441]	116 [4.5669]	153,9 [6.0591]	G3/4"	G3/4"	60 [2.3622]	150,5 [5.9252]



COUPLE DE RENVERSEMENT XRT AVEC BY-PASS

Pump reference	Weight		Overhang torque	
	Without inlet fitting (kg)	With inlet fitting 2" (kg)	Without inlet fitting (N.m)	With inlet fitting 2" (N.m)
XRT6868	23,6	24,1	34,8	36,3

FIXED DISPLACEMENT PUMP FOR TRUCKS | XRE SERIE

FEATURES AND BENEFITS

THE PRODUCT

Specially suited for mounting on an electric PTO (ePTO)
 Piston pump with a displacement of 25 to 90 cc
 9-piston design to reduce pulsations and lower noise level
 Innovative distribution for improved performance
 Use of high mechanical strength materials
 Reinforced sealing
 High self-priming speed
 Compact design
 Original swash plate – barrel synchronization
 Inlet fitting supplied with the pump
 Flange and shaft for truck applications, according to DIN ISO 14

THE APPLICATIONS

Our XRe pump series is designed for truck-mounted equipment (truck cranes, forestry cranes, arms, skip loaders, stabilizer cylinders), winter service equipment (salt spreaders, snow plows, blowers), fire trucks and more.

The new generation of bent-axis XRe pumps has been designed to operate in conjunction with an electric PTO (e-PTO) transmission. Its specific design (9 pistons, advanced distribution) and the use of innovative manufacturing techniques (additive manufacturing) allow the XRe to maintain heavy-duty equipment performance, even in electric operation.



Pump reference	Direction of rotation	Displacement	Max. continuous pressure	Max. peak pressure < 5 seconds	Max. speed ⁽¹⁾	Theoretical torque at Max. continuous pressure	Weight		Overhang torque	
		(cc/rev)	(bar)	(bar)	(rpm)		Without inlet fitting	With inlet fitting 2''	Without inlet fitting	With inlet fitting 2''
XRe25	Right (CW)	25,2	400	450	3050	160	9,71	10,34	8,54	9,87
	Left (CCW)	25,2	400	450	3050	160	9,71	10,34	8,54	9,87
XRe41	Right (CW)	41,2	400	450	2800	262	10,44	11	10,15	11,42
	Left (CCW)	41,2	400	450	2800	262	10,44	11	10,15	11,42
XRe63	Right (CW)	63,2	400	450	2600	402,1	11,44	12,02	11,84	13,18
	Left (CCW)	63,2	400	450	2600	402,1	11,44	12,02	11,84	13,18
XRe90	Right (CW)	90,4	350	400	1500	503	15,42	16,05	17,90	19,52

(1) At absolute pressure 1 bar, ISO VG46 fluid at 25°C.

HOW DOES IT WORK

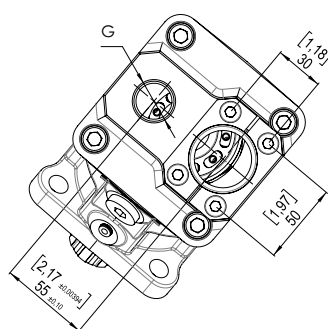


e-PTO + XRE41

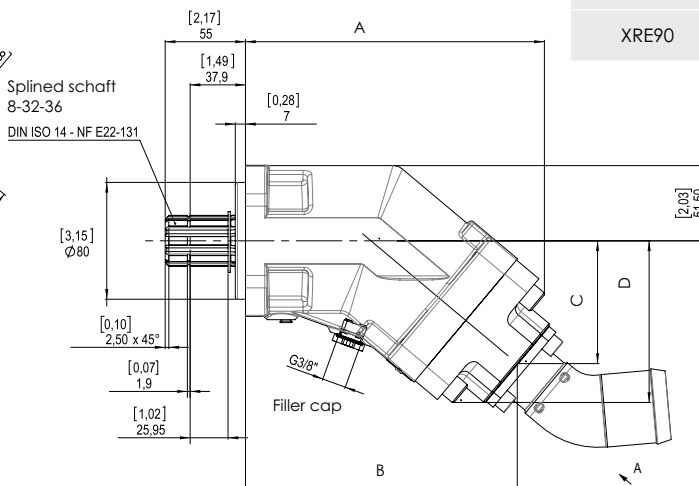
Watch the 3D animation video



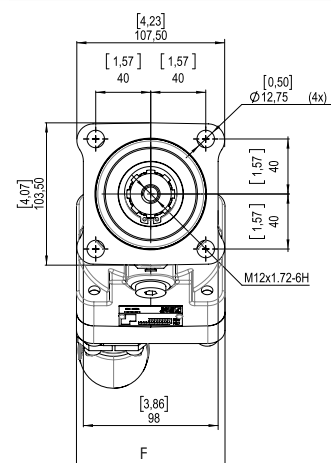
DIMENSIONS IN MM [INCHES]



VIEW A



Pump reference	A	B	C	D	F	G
XRE25	197,9 [7,7913]	180 [7,0866]	78,9 [3,1063]	105 [4,1339]	108 [4,252]	G3/4"
XRE41	204,68 [8,0583]	186,1 [7,3268]	84,08 [3,3102]	112,6 [4,4331]	108 [4,252]	
XRE63	216 [8,5039]	197,7 [7,7835]	94 [3,7008]	120 [4,7244]	108 [4,252]	
XRE90	246,8 [9,7165]	224,6 [8,8425]	106,6 [4,1969]	136,5 [5,374]	123,5 [4,8622]	G1"



Les dimensions en mm [inches] sont données à titre indicatif.

ORDER CODE SYSTEM OF XRe SERIES PUMPS

XRe	...	A1	H1	P0	...	...	...	To define your pump's model code, complete parameters 02, 05, 07, and 08 based on the desired options (refer to the table below).				
01	02	03	04	05	06	07	08					
Pump												
01	XRe bent axis piston pump											XRe
Displacement [cc/rev]												
02						025	041	063	090	...		
Mounting flange												
03	NF ISO 7653, 4 ports					•	•	•	•	A1		
Shaft												
04	DIN ISO 14 - NF 22.131, spline 8-32-36, without through-hole					•	•	•	•	H1		
End cover												
05	Rear ports					G3/4"			G1"	P0		
Direction of rotation (See illustration below)												
06	Left (counterclockwise rotation)					•	•	•	•	L		
	Right (clockwise rotation)					•	•	•	•	R		
Shaft seal material												
07	FKM					•	•	•	•	F		
	NBR					•	•	•	•	N		
Suction fitting kit												
08	45°	1"1/2	Ref. P002790			•	•	-	-	V1		
		1"3/4	Ref. P002788			•	•	•	•	V3		
		2"	Ref. P002787			•	•	•	•	V4		
		2"1/2	Ref. P002786			•	•	•	•	V5		
		3"	Ref. P003075			•	•	•	•	V6		
	90°	1"1/2	Ref. P003197			•	•	-	-	J1		
		2"	Ref. P003196			•	•	•	•	J4		
		2"1/2	Ref. P003195			•	•	•	•	J5		
	0° (straight)	2"	Ref. P003745			•	•	-	-	I2		

DIRECTION OF ROTATION SELECTION

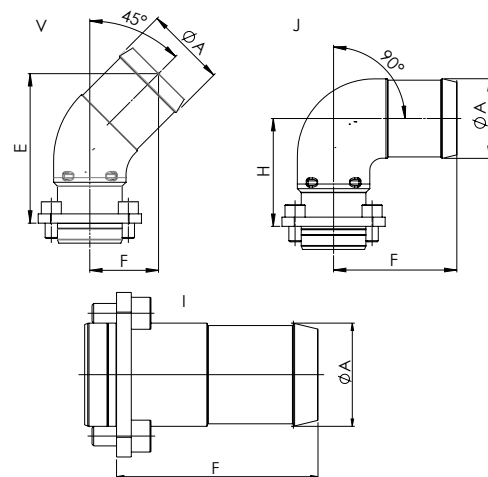
Clockwise (CW)

Counter-clockwise (CCW)



INLET FITTING FOR XR, XRT AND XRE PUMPS

Configurator code	Inlet fitting reference	Ø hose	ØA	E	F	G	H
V1	P002790	45°	Ø1"1/2	40	92,5	41	
V3	P002788		Ø1"3/4	46	92,5	41	
V4	P002787		Ø2"	52	52	44,6	
V5	P002786		Ø2"1/2	65	112	52,1	
V6	P003075		Ø3"	78	125	56	
J1	P003197	90°	Ø1"1/2	39		73,5	62,5
J4	P003196		Ø2"	52		80	70
J5	P003195		Ø2"1/2	65		80	70
I2	P003745	0°	Ø2"	42	82		



SOME APPLICATIONS OF XR, XRT AND XRE PUMPS



Truck mixer



Crane



Car-transporter



Mobile crane



Refuse truck



Tank



Skip loader



Tipper



Concrete pump



Platform

(RE)DISCOVER OUR GEP7.3 POWER PACK UNIT

FEATURES AND BENEFITS

THE PRODUCT

Electric motor + pump assembly up to 14kW
 Three-phase brushless electric motor (robust design)
 7.3 cc/rev radial piston pump
 Integrated electronic controller
 Rated voltage of 12, 24, 48, 96 or 400Vdc
 Design for continuous operation
 Can be immersed in the oil tank (without controller)
 Extremely compact and lightweight
 High overall efficiency
 Designed for mobile applications

THE APPLICATIONS

Particularly suitable for hybrid vehicles, the pump unit is easy to use, compact and light.
 The GEP7.3 electric pump unit consists of a brushless DC electric motor, a variable speed drive and a hydraulic radial piston pump.
 The oil circulation inside the unit provides optimal cooling of the motor and allows it to operate continuously. It can also be immersed (without the variator) in the oil tank.

HOW DOES IT WORK



EL MOTION

GEP 7.3

Watch the 3D animation video



All catalogs available on hydroeduc.com

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