



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

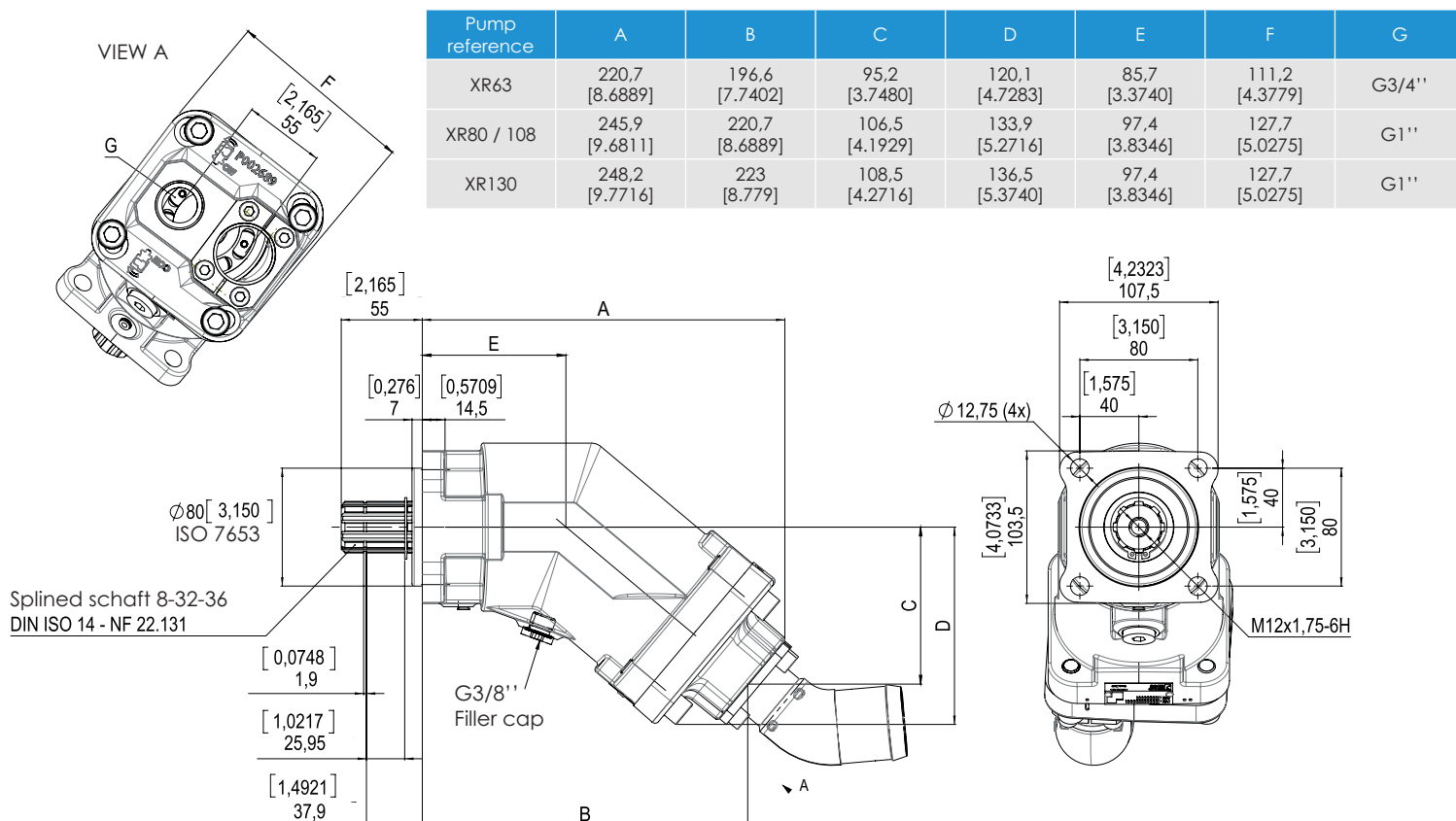
Our XR pump series is designed for truck-mounted equipment (truck cranes, forestry cranes, arms, skip loaders, stabilizer cylinders), winter service equipment (salt spreaders, snow plows, blowers), fire trucks and more.

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-P002890R	Right (CW)	63,1	400	450	2350	401,1	11,4	11,98	11,97	12,77
XR63-P002890L	Left (CCW)									
XR80-P002820R	Right (CW)	80,4	400	450	2350	511,5	14,89	15,47	17,21	18,73
XR80-P002820L	Left (CCW)									
XR108-P002880R	Right (CW)	108,3	400	450	2000	689,1	15,16	15,74	17,88	19,07
XR108-P002880L	Left (CCW)									
XR130-P002885R	Right (CW)	129,9	400	450	2000	826,2	15,39	15,97	18,01	19,55
XR130-P002885L	Left (CCW)									

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

DIMENSIONS IN MM [INCHES]



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

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.

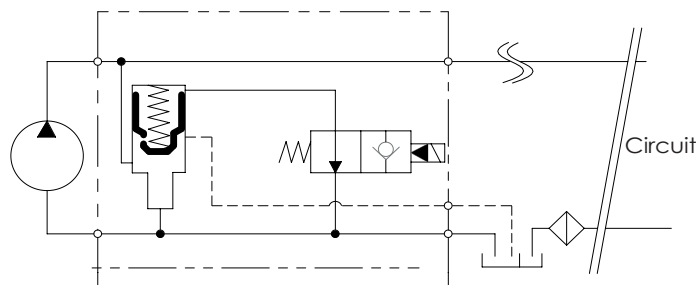
OPERATING MODE OF THE BY-PASS VALVE

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).

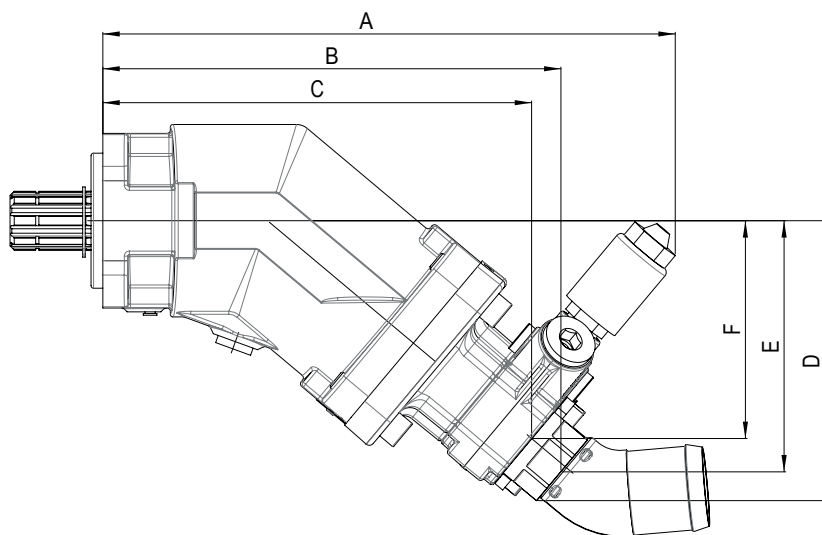
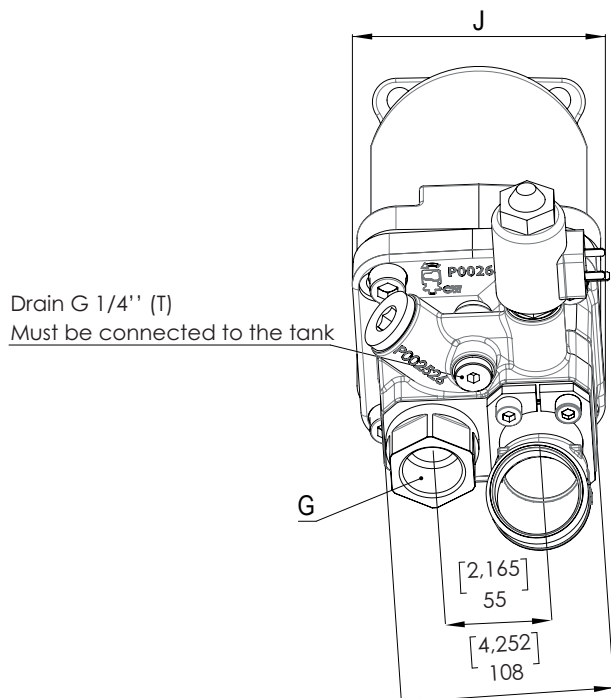
A drain line has to be installed between the by-pass valve and the hydraulic tank of the vehicle to ensure sufficient oil circulation and a good cooling into the pump. In any case, the connection to the tank must be done below the oil level.



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]

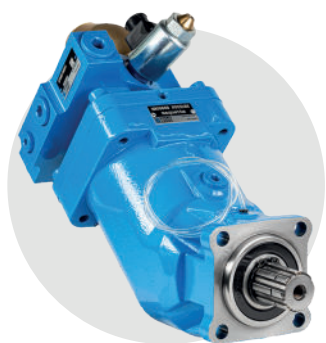


XR OVERHANG TORQUE WITH BYPASS

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

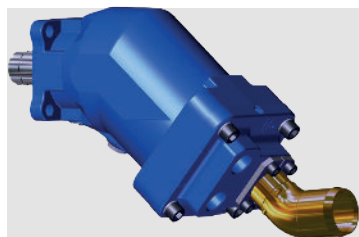
Our XRT pump series is designed for truck-mounted equipment (truck cranes, forestry cranes, arms, skip loaders, stabilizer cylinders), winter service equipment (salt spreaders, snow plows, blowers), fire trucks and more.

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 (cc/rev)	Max. continuous pressure (bar)	Max. peak pressure < 5 seconds (bar)	Max. speed ⁽¹⁾ (rpm)	Theoretical torque at Max. continuous pressure (N.m)	Weight		Overhang torque	
							Without inlet fitting (kg)	With inlet fitting 2'' (kg)	Without inlet fitting (N.m)	With inlet fitting 2'' (N.m)
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

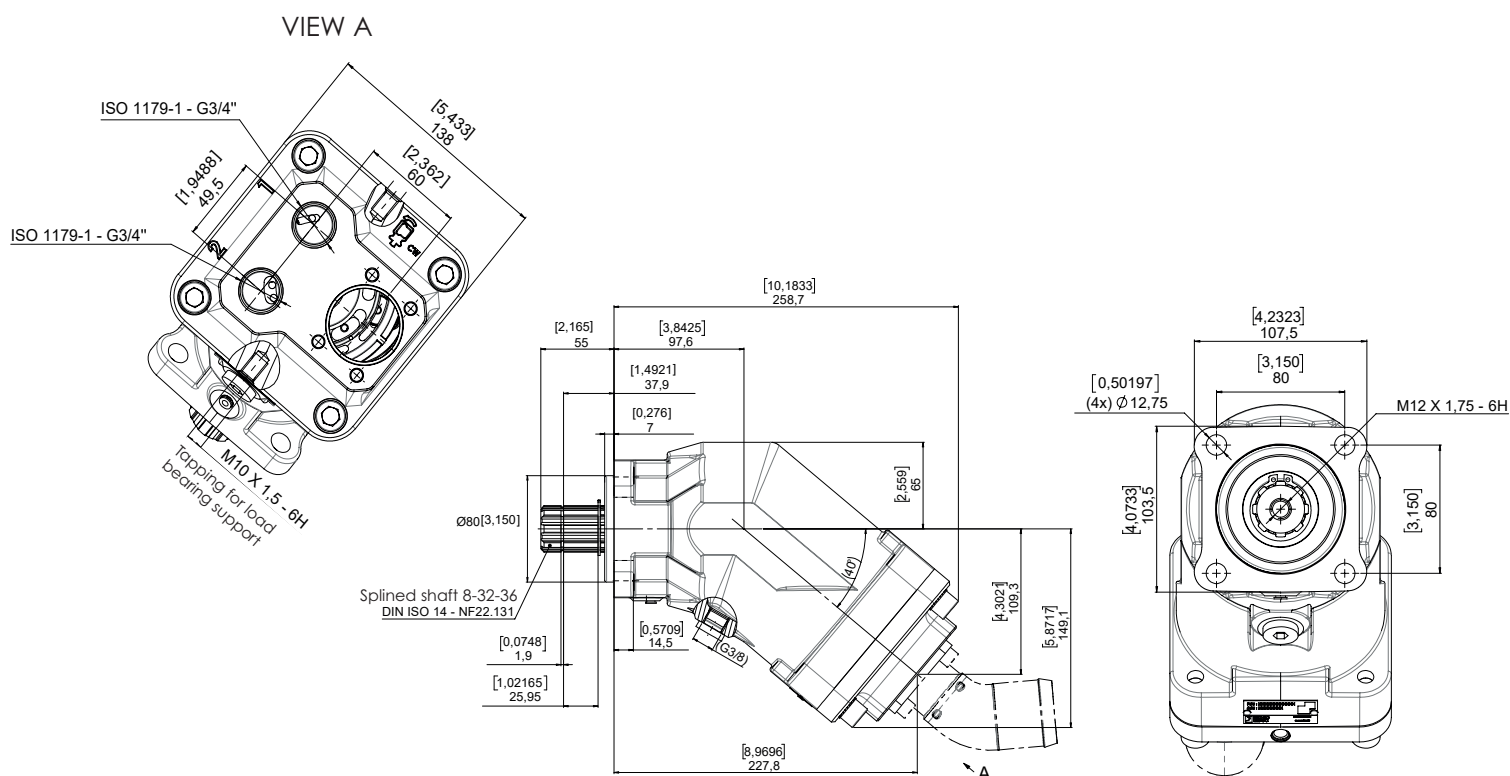


XRT6868

Watch the 3D animation video



DIMENSIONS IN MM [INCHES]



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.

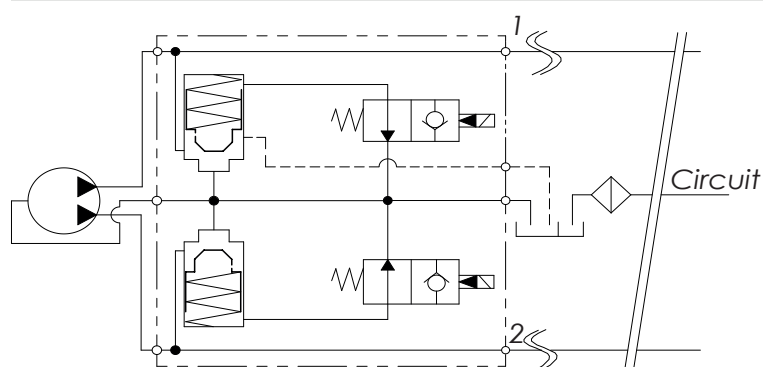


OPERATING MODE OF THE BY-PASS VALVE

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.

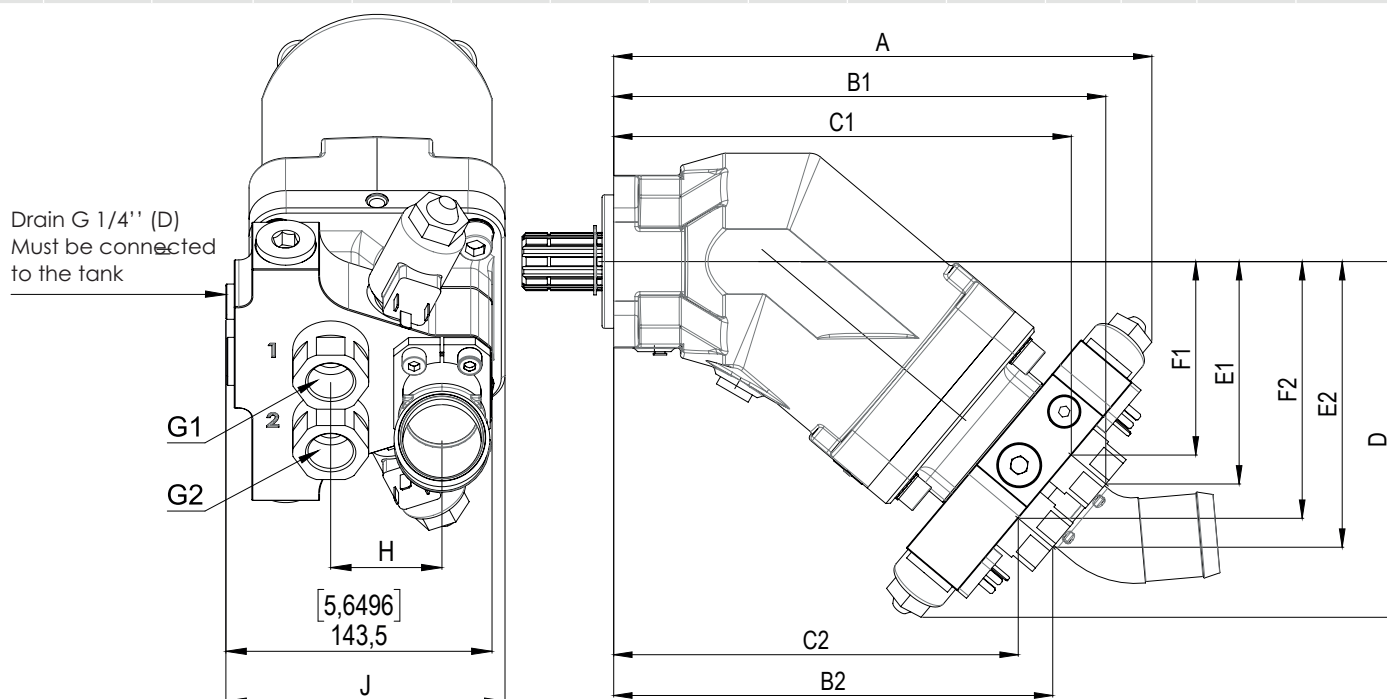
A drain line has to be installed between the by-pass valve and the hydraulic tank of the vehicle to ensure sufficient oil circulation and a good cooling into the pump. In any case, the connection to the tank must be done below the oil level.



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 63 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

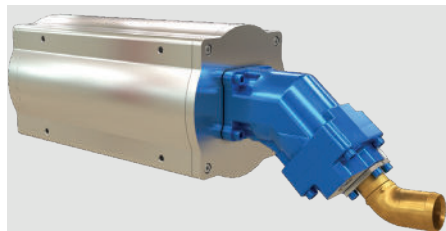
Our XRe pump series is designed for truck-mounted equipment (truck cranes, forestry cranes, arms, skip loaders, stabilizer cylinders), winter service equipment (salt spreaders, snow plows, blowers), fire trucks and more.

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	
							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)
XRE25-P003320	Right (CW)	25,2	400	450	3050	160	9,71	10,34	8,54	9,87
XRE25-P003593	Left (CCW)	25,2	400	450	3050	160	9,71	10,34	8,54	9,87
XRE41-P003000	Right (CW)	41,2	400	450	2800	262	10,44	11	10,15	11,42
XRE41-P003590	Left (CCW)	41,2	400	450	2800	262	10,44	11	10,15	11,42
XRE63-P003225	Right (CW)	63,2	400	450	2600	402,1	11,44	12,02	11,84	13,18
XRE63-P003616	Left (CCW)	63,2	400	450	2600	402,1	11,44	12,02	11,84	13,18
XRE90-P003441	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



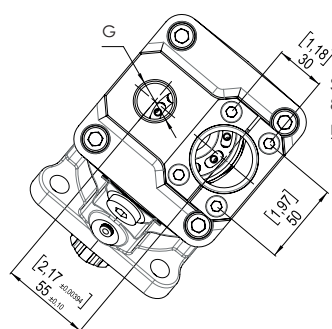
e-PTO + XRE41

Watch the 3D animation video

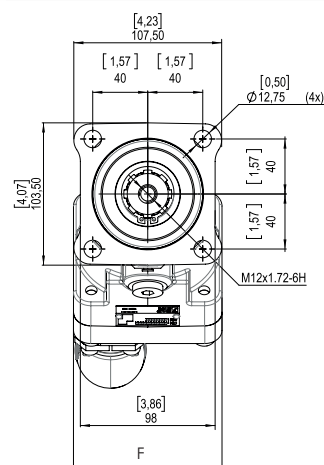
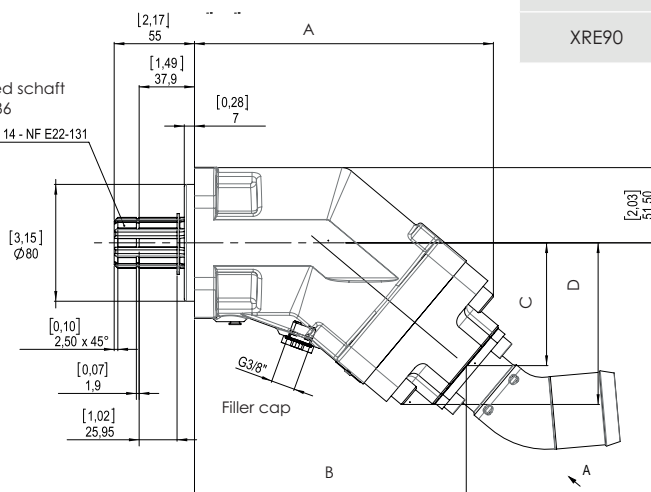


DIMENSIONS IN MM [INCHES]

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"



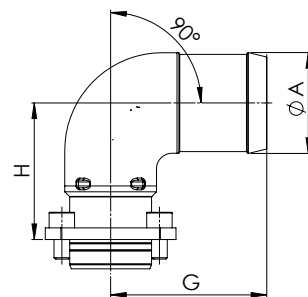
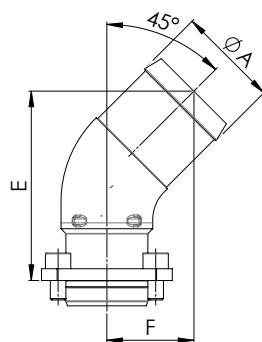
VIEW A



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

INLET FITTING FOR XR, XRT AND XRE PUMPS

Inlet fitting reference	Ø durite	ØA	E	F	G	H
P002790	Ø1''1/2 - 45°	40	92,5	41		
P002788	Ø1''3/4 - 45°	46	92,5	41		
P002787	Ø2'' - 45°	52	52	44,6		
P002786	Ø2''1/2 - 45°	65	112	52,1		
P003075	Ø3'' - 45°	78	125	56		
P003197	Ø1''1/2 - 90°	39			73,5	62,5
P003196	Ø2'' - 90°	52			80	70
P003195	Ø2''1/2 - 90°	65			80	70



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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