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Description:

Hydraulic single axis pilot valve JH2 are proportional remote control operating by the principle of the direct action reducer valves.

They can work up to 100 bar supply pressure and a maximum 60 bar control pressure, flow range from 5 to 15 l/min and they are suitable for the remote control of main valves, proportional valves, servo controls for the adjustment of hydraulic pump and motor variable displacement, hydraulic clutches and brakes.

The consumed energy is extremely low, very little maintenance is needed, the anti-oscillation system of the control lever and the reduced operating force minimize the operational costs and optimize the working sensitivity and comfort.

The robust control device, the galvanized cast iron body, the wide range of metering curves, the possibility to assemble all our range of multifunction ergonomic handles with on-off and proportional hall effect rollers, the availability of straight and bent rubber boots, the check valve block for translation control, make this product flexible and reliable for the heaviest application: from agricultural to earth moving machine, from the naval to industrial applications.

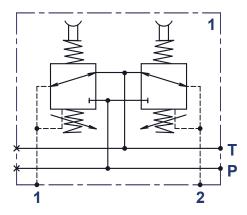
Technical features:

Minimum input flow: Maximum input flow: Maximum input pressure (P): Maximum output pressure (1,2,3,4): Maximum tank counter pressure (T): Maximum hysteresis: Internal leakage: Fluids: Fluids: Fluid temperature range: Ambient temperature range: Fluid viscosity range: Fluid contamination class:	5 I/min 15 I/min 100 bar 60 bar 3 bar 0,5 bar 1,5 ÷ 3,0 cc/min @ 30 bar Mineral hydraulic oils HL, HLP DIN 51524 - 20 ÷ + 80 °C - 40 ÷ + 60 °C 10 ÷ 300 cSt 21/16/13 ISO 4406
Body material:	Cast iron
Plunger materials:	Stainless steel
Plunger guide material:	Brass
Body surface treatment:	Galvanization
Ports:	1/4" ISO 228/1; 9/16"-18 UNF-2B ISO 11226

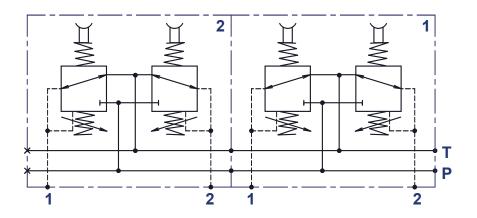
The data and the technical features in this catalogue are not binding. The manufacturer reserves the right to carry out modifications, by its unquestionable judgement and without prior notice, in order to improve its products. The manufacturer is not responsible for damage to people or properties caused by an improper use of the product.

Internal hydraulic circuits:

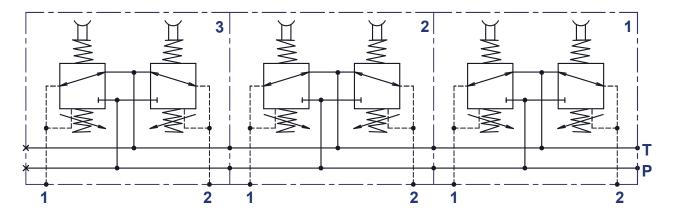
Single axis pilot valve JH2/1



Two section single axis pilot valve JH2/2

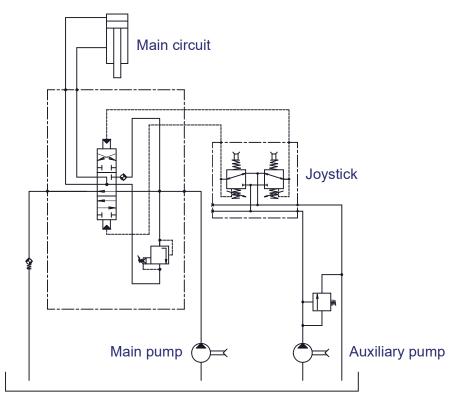


Three section single axis pilot valve JH2/3

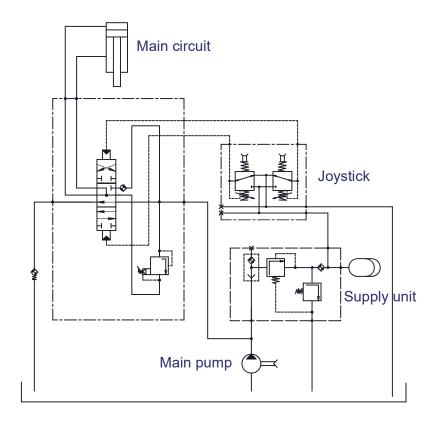


Connection hydraulic circuits:

Supply from auxiliary pump



Supply from pressure reducer valve



Metering curves:

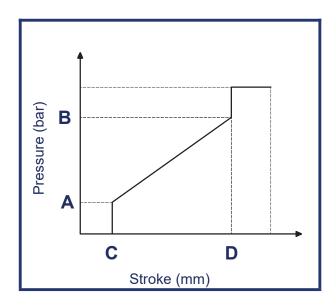


Diagram and metering curve specification type A

	ERING VE CODE	A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	A12	A13	A14	A15
Press. (bar)	Α	5,8	5,0	2,0	6,0	0,0	4,0	5,0	2,0	5,0	2,0	4,0	11,5	10,0	7,0	7,5
<u> </u>	В	19,5	25,0	13,0	40,0	4,0	17,0	15,0	18,0	20,0	8,0	10,0	32,0	20,0	17,0	29,0
Stroke (mm)	С	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Str (m	D	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	6,0	7,5	7,5	7,5	7,5	7,5	7,5
	ERING VE CODE	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30
^o ress. (bar)	Α	6,0	0,0	4,0	6,0	8,0	5,0	5,8	6,8	5,8	4,5	2,8	8,0	3,0	8,0	5,8
Pres: (bar	В	22,0	20,0	16,0	20,6	28,0	20,5	18,3	23,5	19,2	14,5	20,8	34,0	16,2	27,6	15,5
Stroke (mm)	С	1,5	1,0	1,5	1,5	1,5	1,5	1,5	1,0	1,5	1,0	1,5	1,5	1,5	1,5	1,5
Str (m	D	7,5	7,5	7,0	7,0	7,5	8,0	8,0	7,5	9,5	5,0	10,0	7,5	7,5	10,0	7,5
	ERING VE CODE	A31	A32	A33	A34	A35	A36	A37	A38	A39	A40	A41	A42	A43	A44	
Press. (bar)	Α	5,7	7,0	10,8	0,0	5,8	7,4	7,1	7,5	6,6	6,5	5,9	6,6	3,0	14,5	
Dre (b	В	25,7	15,5	27,5	28,0	24,0	21,0	18,8	17,7	16,4	11,6	17,4	16,3	22,2	26,9	
Stroke (mm)	С	1,5	1,2	1,0	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,0	
Stroke (mm)	D	7,5	7,5	7,5	7,5	9,5	7,5	7,0	7,5	7,5	7,5	7,5	9,5	7,5	7,5	

Metering curves:

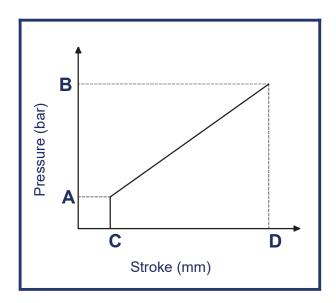
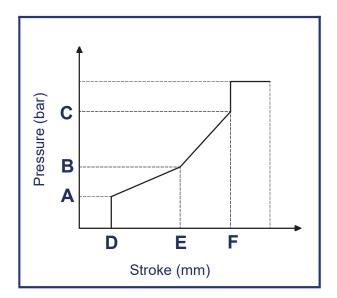


Diagram and metering curve specification type ${\bm B}$

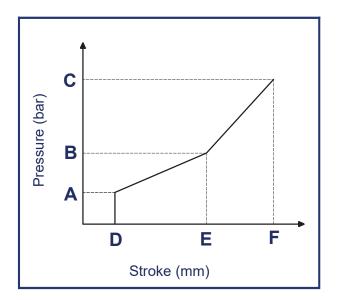
METERING CURVE CODE		B01	B02	B03	B04	B05	B06	B07	B08
iss. ar)	Α	5,0	5,0	5,0	2,0	7,5	5,0	4,0	3,0
Press. (bar)	В	22,0	19,0	16,0	16,5	32,5	20,0	10,5	14,5
Stroke (mm)	С	1,5	1,5	1,5	1,5	1,0	1,0	1,5	1,5
Str (m	D	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0
METERING CURVE CODE		B09	B10	B11	B12	B13	B14	B15	B16
Press. (bar)	Α	6,0	2,0	7,2	8,3	8,0	6,0	10,4	6,5
Dre (b:	В	24,3	19,3	21,3	22,4	22,8	23,0	25,5	12,0
Stroke (mm)	С	1,0	1,5	1,0	1,0	1,0	1,5	1,0	1,0
Str (m	D	8,0	8,0	7,5	7,5	7,5	8,0	7,5	8,0
	ERING VE CODE	B17	B18	B19	B20	B21	B22	B23	B24
Press. (bar)	Α	2,1	5,8	6,5	2,0	2,0	5,8	4,0	10,2
Dre (b	В	20,3	27,0	12,0	8,5	13,7	16,4	18,0	25,1
Stroke (mm)	С	1,0	1,5	1,5	1,5	1,5	1,2	1,5	1,0
Stroke (mm)	D	8,0	8,0	8,0	8,0	8,0	7,7	8,0	8,0

Metering curves:



	ERING VE CODE	C01	C02	C04	C07	C08	C10
lre	Α	2,0	3,0	7,0	4,2	6,5	5,4
Pressure (bar)	В	6,0	7,0	18,0	9,0	11,0	10,9
Pre (С	15,0	16,0	27,0	20,0	18,5	17,3
e (D	1,5	1,5	0,5	1,5	1,0	1,0
Stroke (mm)	E	5,0	5,0	6,3	5,0	5,0	5,0
s C	F	7,5	7,5	8,0	7,5	7,5	7,5

Diagram and metering curve specification type **C**

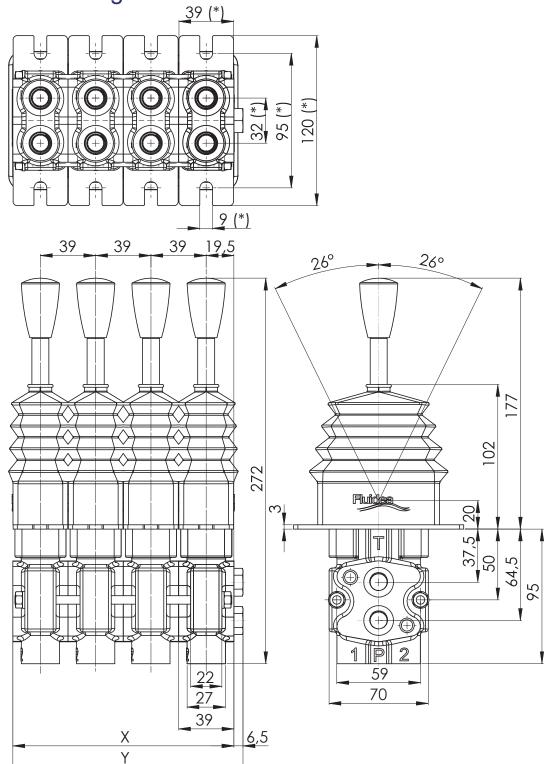


	ERING VE CODE	D01	D02	D04
one	A ()		4,2	5,0
Pressione (bar)	В	6,0	9,0	16,0
Pre	С	15,0	22,0	20,0
e –	D		1,0	1,0
Corsa (mm)	E	5,0	5,0	7,5
00	F	8,0	8,0	8,0

Diagram and metering curve specification type **D**

Overall dimension:

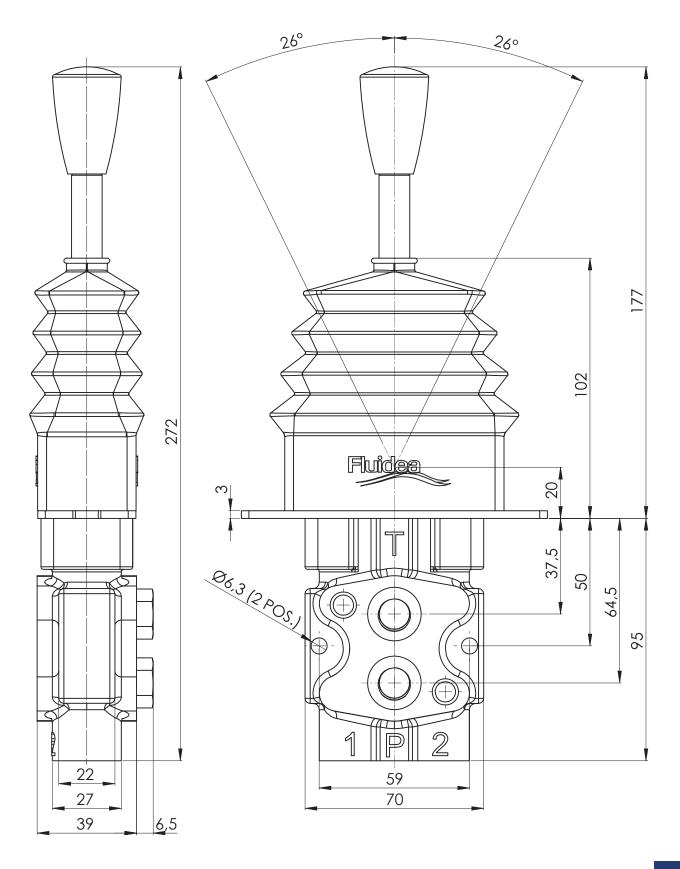
Sectional single axis remote control with standard knob



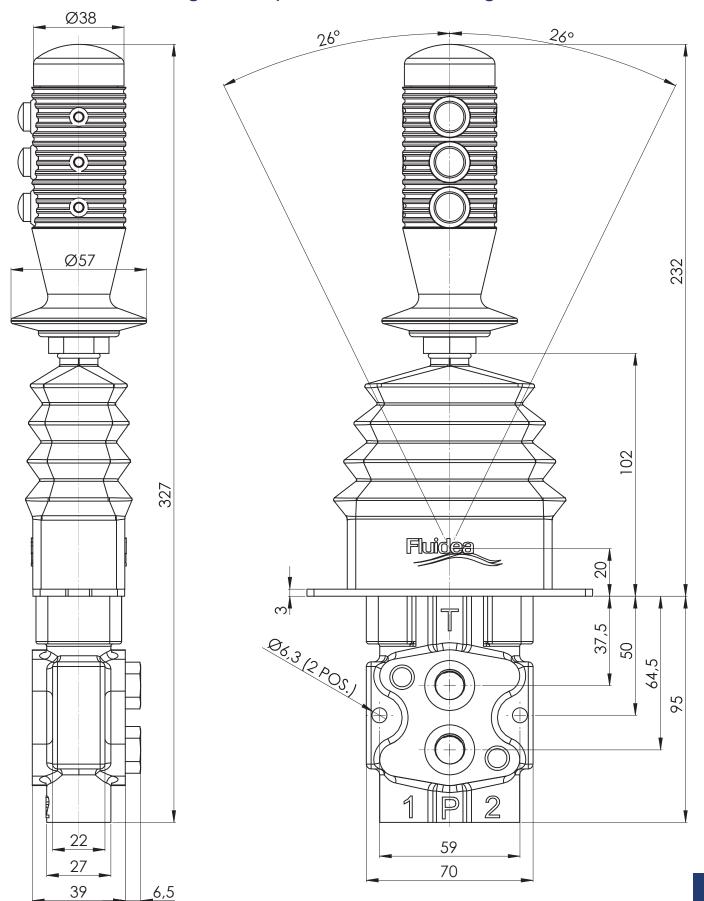
	Variable dimensions												
JH2	/1	/2	/3	/4	/5	/6	/7	/8	/9	/10	/11	/12	
X (mm)	39	78	117	156	195	234	273	312	351	390	429	468	
Y (mm)	45,5	84,5	123,5	162,5	201,5	240,5	279,5	318,5	357,5	396,5	435,5	474,5	

Overall dimensions:

Single axis pilot valve with standard knob



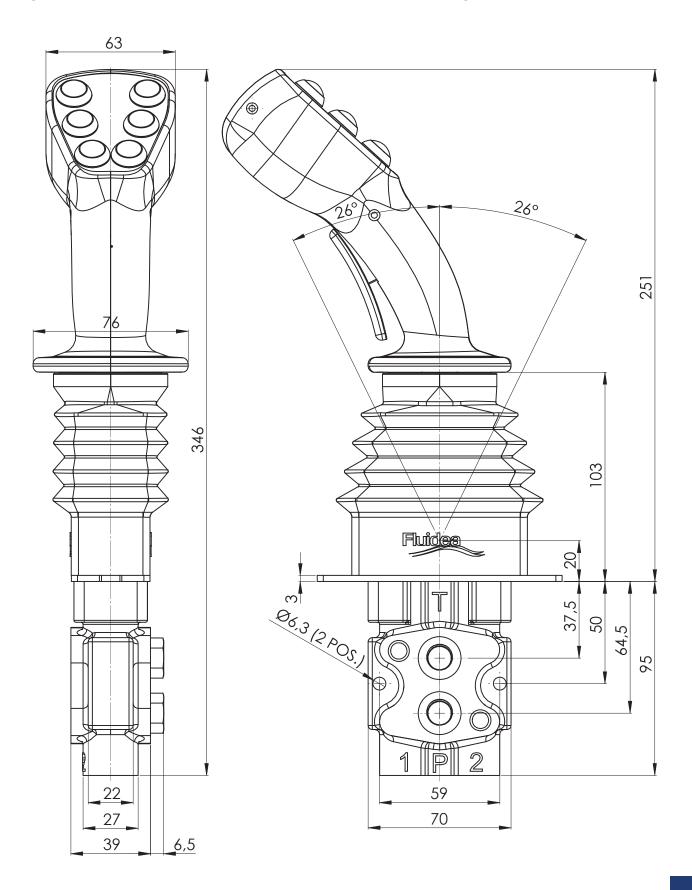
Overall dimensions:



Single axis pilot valve with straight handle IC2

Overall dimensions:

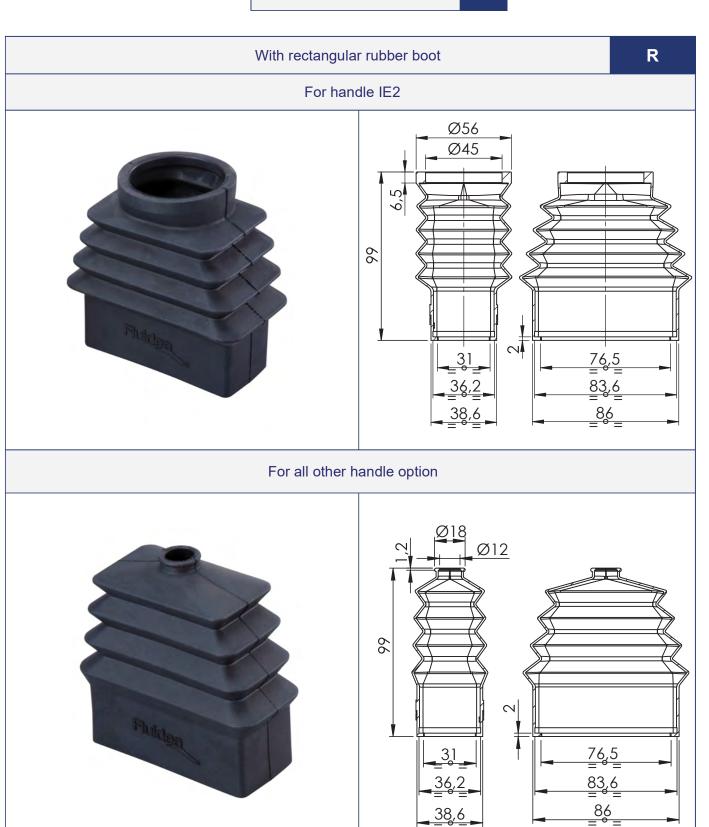
Single axis pilot valve with multifunctional ergonomic handle IE2



Ζ

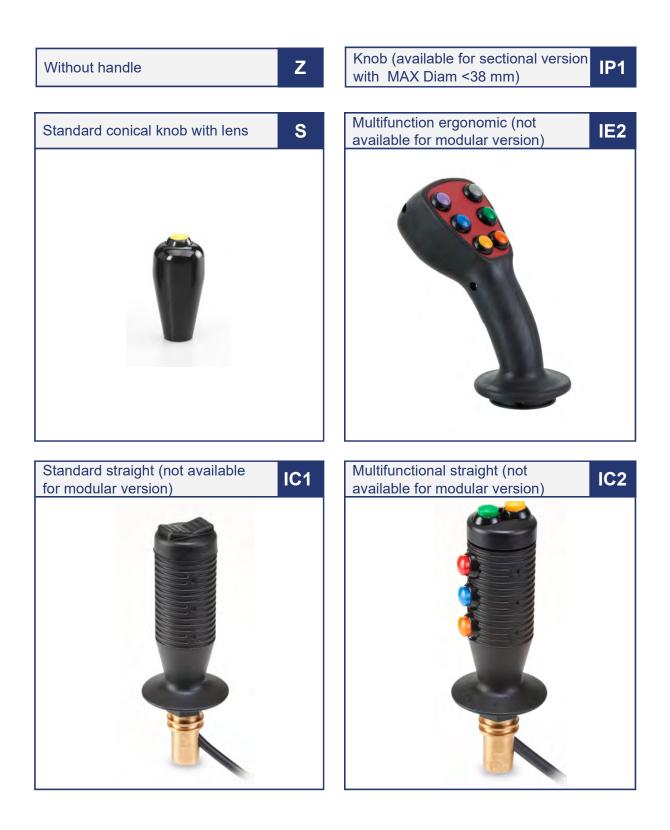
Rubber boot protection:

Without rubber boot

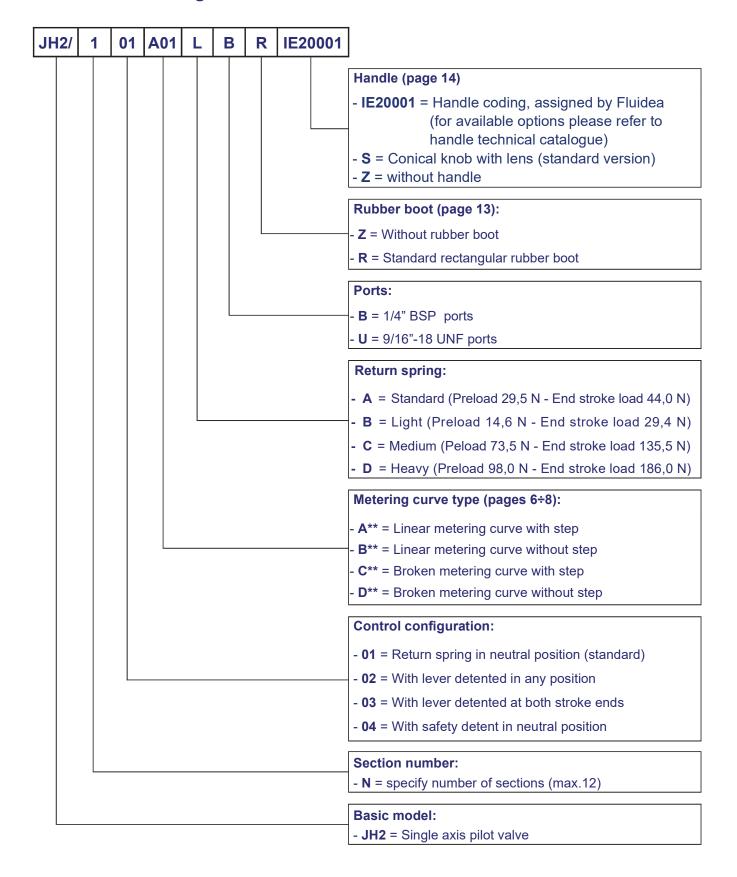


Handle options:

For a detailed configuration of the handle, please refer to the technical catalogue of the required model.



Model coding:



** Replace with the metering curve number shown in the tables

THE COMPREHENSIVE RANGE OF MANUFACTURED AND MARKETED COMPONENTS INCLUDES:

- Hydraulic gear and axial piston pumps & motors
- Directional control valves & selector valves
- Proportional EH pressure reducing valves & manifold blocks
- Hydraulic, pneumatic and electric on-off & proportional joysticks
- Control electronics
- Radio controls, push buttons stations, dashboards and armrests
- Multifunction ergonomic, cylindrical & palm grips
- Hydraulic filters & contamination control systems
- Heath exchangers and cooling systems
- Fluid monitoring & diagnostic instruments
- Bell housings, driving flanges & elastic couplings