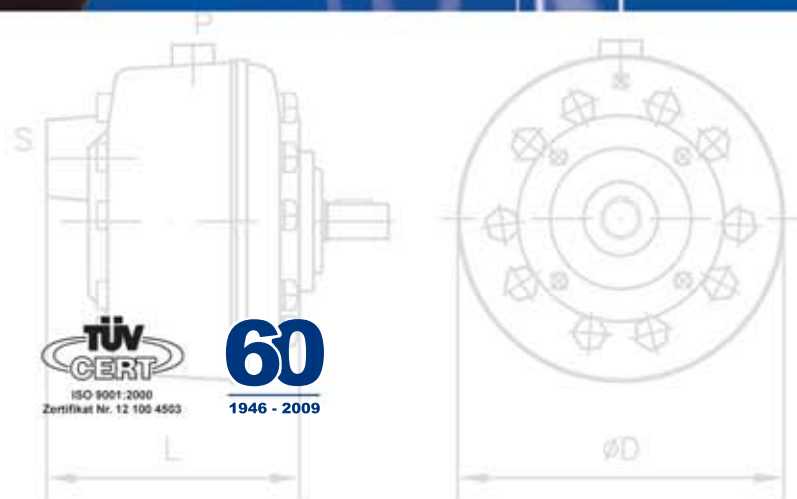




HAWE
HYDRAULIK

Solution for a World under Pressure



DEVSIIN
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Industrial Instrument Supplier

نماینده رسمی فروش و خدمات پس از فروش در ایران

تأمین قطعات • گارانتی • تعمیرات

در سال ۱۹۴۹ مهندس جوانی به نام **Karl Heilmeyer** و بازرگان موفقی به نام **Wilhelm Weinlein** شرکت **Heilmeyer & Weinlein** را با هدف "راه حل هیدرولیکی" بنیاد نهادند و با تلاش های شبانه روزی در بازار صنعت آن زمان جایگاه ویژه ای برای خود به ثبت رسانیدند.

پس از گذشت ۶۰ سال آن شرکت اکنون با نام تجاری **Hawe** به یکی از بزرگترین تولیدکنندگان تجهیزات هیدرولیک در سراسر جهان تبدیل شده است. بیش از ۲۰۰۰ نفر در تشکیلات گسترده **Hawe** مشغول به کار می باشند و محصولات آن در سراسر جهان پهناور در خدمت صنایع مختلف می باشد.



گروه صنعتی پارسیان با هدف تهیه و تأمین نیاز صنعت کشورمان تأسیس گردیده است. شرکت رکسان پارسیان یکی از سه شرکت این گروه صنعتی در زمینه هیدرولیک و پنوماتیک با دارا بودن مهندسين تحصيلکرده و آموزش یافته در آلمان در خدمت کشور عزیزمان می باشد.

این شرکت در سال ۱۳۸۸ موفق به اخذ نمایندگی رسمی از کمپانی بزرگ **Hawe** گردید و با تلاش متخصصین داخلی توانست گارانتی و خدمات پس از فروش را مطابق با استانداردهای کشور آلمان ارائه نماید.

امید است بتوانیم در راهبرد شعارمان "**رکسان همپای صنعت ایران**" در خدمت صنعت کشورمان باشیم.

■ سیسٹم متراکم ہیدرولیکی **Compact hydraulic power packs**

■ پمپ **Pumps**

- Radial piston pumps
- Gear type pump
- Axial piston machines
- Dual stage pumps
- Air driven hydraulic pumps
- Hand pumps

■ شیر **Valves**

- Directional spool valves
 - On/off, directional spool valves
 - Throttling spool valves
 - Proportional directional spool valves
 - Directional spool valves (manifolds)
- Directional seated valves
 - Seated valves
 - Lifting modules
- Pressure valves
 - Pressure limiting-, and sequence valves
 - proportional pressure limiting valves
 - Pressure reducing valves
 - Proportional reducing valves
 - Switch-off valves, dual stage valves
 - Load-holding valves
- Metering valves
 - Orifices, throttle and throttel shut-offvalves
 - Prop. throttles
 - Flow controller valves
 - Electro-proportional flow control valves
 - Flow dividers
- Check valves
 - Releasable check valves
 - Suction and pre-fill valves
 - Line rapture safaty valves, shuttle valves

■ سیلندر **Cylinders**

- Lifting cylinders
- Clamping cylinders

■ تجهیزات و لوازم جانبی **Accessories**

- Connectors
- Pressure switches
- Accumulator
- Accessories others

■ تجهیزات الکترونیکی **Electronics**

- Proportional amplifiers
- Programmable logic controls
- Others electric components

Turn - Key solutions from our modular system

Compact hydraulic power pack with directly mounted valve bank
Compact hydraulic control system $P_{\max}$: 700 bar



Miniature hydraulic power packs type FP

Radial piston pump with integrated electric motor
Oil immersed compact hydraulic power pack for intermittent service
 $P_{\max}$: 700 bar $Q_{\max}$: approx. 2.1 lpm V_{usable} : 1.3 l



Compact hydraulic power packs type HC & HCW

Radial piston pump with integrated electric motor
Oil immersed compact hydraulic power pack for short period operation
 $P_{\max}$: 700 bar $Q_{\max}$: approx. 20.1 lpm V_{usable} : 8 l



Compact hydraulic power packs type KA & KAW

Radial piston or gear pump with integrated motor single or dual circuit pump
Oil immersed hydraulic power pack for intermittent or load/noload operation
 $P_{\max}$: 700 bar $Q_{\max}$: approx. 7 lpm $V_{\text{tank max}}$: 2 ... 10 l



Compact hydraulic power packs type MP & MPN

Radial piston and/or gear pump with integrated motor single or dual circuit pump
Oil immersed hydraulic power pack for intermittent or load/noload operation
 $P_{\max}$: 700 bar $Q_{\max}$: approx. 13.1 lpm $V_{\text{tank max}}$: approx. 100 lpm



Compact hydraulic power packs type HK & HKL

Radial piston and/or gear pump with integrated motor
Oil immersed Compact hydraulic power pack for permanent and intermittent operation
 $P_{\max}$: 700 bar $Q_{\max}$: approx. 13 lpm $V_{\text{usable max}}$: approx. 11.1 l



Valve bank type BA

Sub-plates / directional seated valve, zero leakage
Valves section with sub-plate for pipe connection
 $P_{\max}$: 400 bar $Q_{\max}$: 20 lpm

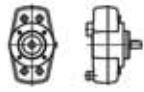
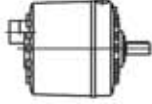
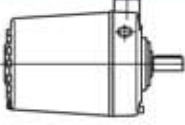


Radial piston pumps

R RG BF DK E EF F FF MPE
PE AF B RM RU RV RVT



Basic types and general parameters

Design	Number of cylinders	700 bar	550 bar	450 bar	250 bar	160 bar
7631 	2	R 0,18	R 0,28	R 0,43	R 0,92	
	3	R 0,27	R 0,42	R 0,64	R 1,35	
	5	R 0,46	R 0,7	R 1,08	R 2,27	
6010 	1	R(G) 0,3	R(G) 0,5	R(G) 0,8	R(G) 1,7	R(G) 2,2
	2	R(G) 0,6	R(G) 1,0	R(G) 1,6	R(G) 3,3	R(G) 4,4
	3	R(G) 0,9	R(G) 1,5	R(G) 2,5	R(G) 5,1	R(G) 6,5
6011 	5	R(G) 1,4	R(G) 2,6	R(G) 4,2	R(G) 8,3	R(G) 10,9
	7	R(G) 2,1	R(G) 3,7	R(G) 5,8	R(G) 11,8	R(G) 15,3
6012 	10	R(G) 2,7	R(G) 5,3	R(G) 8,2	R(G) 16,8	R(G) 21,7
	14	R(G) 4,0	R(G) 7,4	R(G) 11,6	R(G) 23,5	R(G) 30,4
6014 	20	R(G) 6,1	R(G) 11,0	R(G) 17,4	R(G) 35,0	R(G) 43,4
	28	R(G) 8,0	R(G) 15,0	R(G) 23,0	R(G) 47,0	R(G) 60,8
6016 	42	R(G) 12,7	R(G) 22,0	R(G) 34,5	R(G) 70,0	R(G) 91,2

Dual stage pump

RZ

Basic types and general parameters

Design	700 bar	450 bar	250 bar
7631	RZ 0,18...	RZ 0,64...	RZ 2,27...
6910	RZ 0,9...	RZ 2,5...	RZ 5,1...
6911	RZ 1,4...	RZ 5,8...	RZ 11,8...
6912	RZ 2,7...	RZ 8,2...	RZ 16,8...
6914	RZ 8,0...	RZ 23,0...	RZ 47,0...
6916	RZ 12,7...	RZ 34,5...	RZ 70,0...



Axial piston machines

K60N M60N V60N

Basic type and main parameter

Basic type	Geom. displacement V_g (cm ³ /rev)	Delivery flow Q_{max} (lpm)	Nom. pressure P_{nom} (bar)	Self-suction speed n (rpm)
V60N -060	60	87	350 (400)	2700
-090	90	130	350 (400)	2400
-110	110	160	350 (400)	2200



V30D V30E V30Z

Basic type and main parameter

Basic type	Geom. displacement V_g (cm ³ /rev)	Delivery flow Q_{max} (lpm)	Nom. pressure P_{nom} (bar)	Self-suction speed n (rpm)
V30E -095	95	139	350 (420)	2600
-160	160	232	350 (420)	2100
-270	270	392	350 (420)	1900
V30D -045	45	65	350 (420)	2600
-075	75	109	350 (420)	2400
-095	95	139	350 (420)	2200
-115	115	167	250 (300)	2000
-140	140	206	350 (420)	2200
-160	160	238	250 (300)	1900
-250	265	380	350 (420)	1800



Hand pumps

DH H HD HE

Basic types and general parameters

Basic type and size	Pressure P_{max} (bar)	Geom. volume per stroke $V_{H max}$ cm ³ /stroke
H 16	350	6
H 20	220	9.4
H 25	150	14.7
HE 4	600	4
HD 13	350	13
HD 20	220	20
HD 30	150	30
DH 40	150	51
DH 45	100	64



Directional spool valves

SG SP SKP SKH SW SWP NSWP SWR SWS
HSR HSF HSL DL PSL PSV PSLF PSVF NSM

Basic types and general parameters

Basic type and size	Flow Q_{max} (lpm)	Pressure	Tapped ports (BSPP)
SG 0	12	400	G 1/4 / G 3/8
SG 1	20	400	G 3/8
SG 2	30	400	G 3/8
SG 3	50	400	G 1/2
SG 5	100	400	G 1
SKP - 0 SKH - 0	12	400	G 1/4 / G 3/8
SKP - 1 SKH - 1	20	400	G 3/8
SKP - 2 SKH - 2	30	400	G 3/8
SKP - 3 SKH - 3	50	400	G 1/2
SKP - 4 SKH - 4	100	400	G 3/4
SW 1 SWP 1	12	315	G 1/4
SW 2 SWP 2	25	315	G 3/8, G 1/4
NSWP 2	25	315	NG 6
SWR 1	12	315	G 1/4
SWS 2	25	315	G 3/8, G 1/4
HSL3 HSF3 HSRL3	80	400	G 1/2, G 1/4
HSL4 HSF4 HSR 4	160	400	G 3/4, G 1/4
DL 1 1	12 ... 16	315	G 1/4, G 1/4
DL 2 1	20 ... 30	315	G 1/4, G 3/8
2			G 3/8, G 3/8
DL 3 2	30 ... 60	250	G 3/8, G 1/2
3			G 1/2, G 1/2
DL 4 3	90	250	G 1/2, G 3/4
PSL ... - 2	80	420	G 3/8 ... - 1/2
PSV ... - 2	80	420	G 3/8 ... - 1/2
PSL ... - 3	200	420	G 3/4 ... - 1 1/16
PSV ... - 3	200	420	G 3/4 ... - 1 1/16
PSL ... - 5	300	400	G 3/4 ... - 1 1/4
PSV ... - 5	300	400	G 3/4 ... - 1 1/4
PSLF ... - 3	200	420	G 3/4 ... - 1 1/16
PSVF ... - 3	200	420	G 3/4 ... - 1 1/16
PSLF ... - 5	350	400	G 3/4 ... - 1 1/4
PSVF ... - 5	350	400	G 1 ... - 1 1/2
NSMD2	25	120	DIN 24340-A6



Directional seated valves

VB WN WH BWH BWN VZP BVZP EM BV NBV
VP HSV CR HM HSV HSZ VH DA EA

Basic types and general parameters

Basic type and size	Flow Q_{max} (lpm)	Oper. pressure P_{max} (bar)	Tapped ports (BSPP) P, R, A
0	6	300 ... 500	G 1/4
1	12	350 ... 500 (700)	G 1/4 and G 3/8
2, 22	25, 12	350 ... 500 (700)	G 3/8 and G 1/2
3	65	350 ... 400	G 1/2 and G 3/4
4	120	350	G 3/4 and G 1
VB 01	6	300 ... 500	G 1/4
VB 11	12	350 ... 500(700)	G 1/4 and G 3/8
VB 21, 22	25	350 ... 500(700)	G 3/8 and G 1/2
VB 31	65	350 ... 400	G 1/2 and G 3/4
VB 41	120	350	G 3/4 and G 1
WN 1	5	320...350	G 1/4
WH 1	8	450	G 1/4
WH 2	15	350	G 1/4
WH 3	30	350	G 3/8
WH 4	60	350	G 1/2
BWN 1	5	350	G 1/4
BWH 1	8	450	G 1/4
BWH 2	15	350	G 1/4
BWH 3	30	350	G 3/8
BWH 4	60	350	G 1/2
VZP1	5 ... 15	250 ... 450	20
BVZP 1	15	450	G 1/4
BVG 1 BVP 1	20	400 / 250	G 1/4, G 3/8
NBVP 16	20	400 / 250	NG 6
BVG 3 BVP 3	50	320	G 1/2
BVE 3	70	400	G 1/2
VP 1	15	400	G 1/4, G 3/4
HSV 21	20	315	G 3/8 G 3/8
HSV 22	30	315	G 3/8 G 1/2
HSV 41	40	400	G 1/2 G 1/2
HSV 61	60	350	G 1/2 G 1/2
HSV 71	120	315	G 3/4 G 3/4
CR 4M	200	400	G 1 G 1/4 G 3/4 G 1/4
CR 4H	200	400	G 1 G 1/4 G 3/4 G 1/4
CR 5M	300	400	G 1 1/4 G 3/8 G 1 G 1/4
VH 1, VHP 1 VHR 1	12	700	G 1/4
VH 2 VHR 2	25	500	G 3/8
DA 2, EA 2	60	500	G 3/4
DA 2B, EA 2B	60	500	G 3/4
DA 3, EA 3	150	500	G 1



Pressure valves

MV SV CMV CSV DV AS PMV PDV ADC AM ADM VDM
CDK DK DZ PM PDN CNE NE LV ALV DSV LH



Metering valves

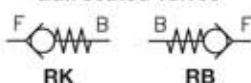
S SB SQ SE SEH TQ TV EV BE BC Q
FG ED RD RDF CQ CQR CQV AV AVT CAV

		Flow		Tapped ports		Symbol	
		Q_{max} (lpm)		(BSPP)		2-way	3-way
Directly actuated	S. 2-3	S. 3-3	0.3 ... 60	G 1/2	Pipe mounting		
	S. 2-4	S. 3-4	0.6 ... 90	G 3/4			
	S. 2-5	S. 3-5	1.0 ... 130	G 1	Manifold mounting		
	SU 2-3	SU 3-3	0 ... 50	G 1/2			
	SE 2-3	SE 3-3	0.3 ... 50	G 1/2	Pipe mounting		
	SE 2-4	---	0.6 ... 70	G 3/4			
	---	SE 3-4	0.6 ... 90	G 3/4			
Hydraulically piloted	SEH 2-2	SEH 3-2	0.1 ... 30	G 3/8	Manifold mounting		
	SEH 2-3	SEH 3-3	0.3 ... 50	G 1/2			
	---	SEH 3-4	0.6 ... 90	G 3/4			
	---	SEH 3-5	1.0 ... 120	G 1			

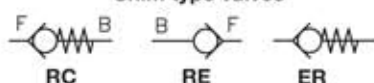
Check valves

R ER CRK CRB B CRH RHC
HRP RH DRH F LB WV WVC

Ball seated valves



Shim type valves



Basic type and size	Flow Q_{max} (lpm)	Oper. pressure P_{max} (bar)	Mounting thread	Symbol	
				CRK	CRB
CRK 1 / CRB 1	30	500	M 16 x 1.5		
CRK 2 / CRB 2	50	500	M 20 x 1.5		
CRK 3	80	500	M 24 x 1.5		
CRH 1	30	500	M 16 x 1.5		
CRH 2	50	500	M 20 x 1.5		
CRH 3	80	500	M 24 x 1.5		
RHC 1	15	700	M 16 x 1.5		
RHC 2	25	700	M 20 x 1.5		
RHC 3	55	700	M 24 x 1.5		
RHC 4	100	500	M 30 x 1.5		
RHC 5	150	500	M 36 x 1.5		
RHC 6	200	500	M 42 x 1.5		

Basic type and size	Flow Q_{max} (lpm)	Pressure P_{max} (bar)	Release ratio P_A / P_Z	Symbol
HRP 1	20	700	2.9	
HRP 2	35	700	3.9	
HRP 3	50	500	4.3	
HRP 4	80	500	3.8	
HRP 5	140	500	4.0	
HRP 7 V	400	500	3.0	

Basic type	Size	Flow Q_{max} (lpm)	Oper. pressure P_{max} (bar)	Connection thread (BSPP)	Symbol
B 1 B 2 B 3	- 1	15	500	G 1/4 (A)	
	- 2	20		G 3/8 (A)	
	- 3	30		G 1/2 (A)	
	- 4	45		G 3/4 (A)	
	- 5	75		G 1 (A)	
	- 6	120		G 1 1/4 (A)	
	- 7	160		G 1 1/2 (A)	



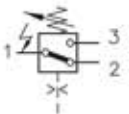
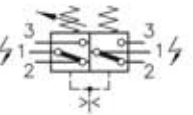
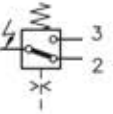
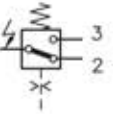
Hydraulic clamps

HSE HSA

Basic type and size	Stroke (mm)	F _{max} (N) with 500 bar	Oper. pressure p _{max} (bar)	Mounting thread	Symbol
HSE 12	2 .. 8	5500	500	M 20 x 1.5	
HSE 16	3 .. 12	10000		M 24 x 1.5	
HSE 20	4 .. 20	15000		M 30 x 1.5	
HSE 24	5 .. 20	23000		M 36 x 1.5	
HSA 32	20	40000		---	
HSA 40	25	60000		---	



Pressure switches

Basic type and size	Brief description	Adjustable pressure p _{max} (bar)	Connection thread (BSPP)	Symbol
DG 1 R	Adjustment via turn-knob at the dial	20 ... 600	G 1/2 or G 1/4 A	
DG 8	Version with two pressure switches Main switch: Adjustment via turn-knob at the dial Secondary switch: Adjustment via set screw	20 ... 600 and 20 ... 180	G 1/2 or G 1/4 A	
DG 3..	Compact design for manifold mounting Adjustment via set screw	4 ... 700	G 1/4 or G 1/4 A 2)	
DG 5 E	Electronic pressure switch	0 ... 600	G 1/4 A	
DG 6.	with two switch points	0 ... 400	G 1/4 A or M 5	
DT 11	Analogous pressure sensor	0 ... 1000	G 1/4 A	
DT 2		0 ... 600		



Electronic accessory components

Programmable logical valve control





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