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## AR

Axial piston pump  
Nominal pressure: 165bar  
Max. pressure: 210bar



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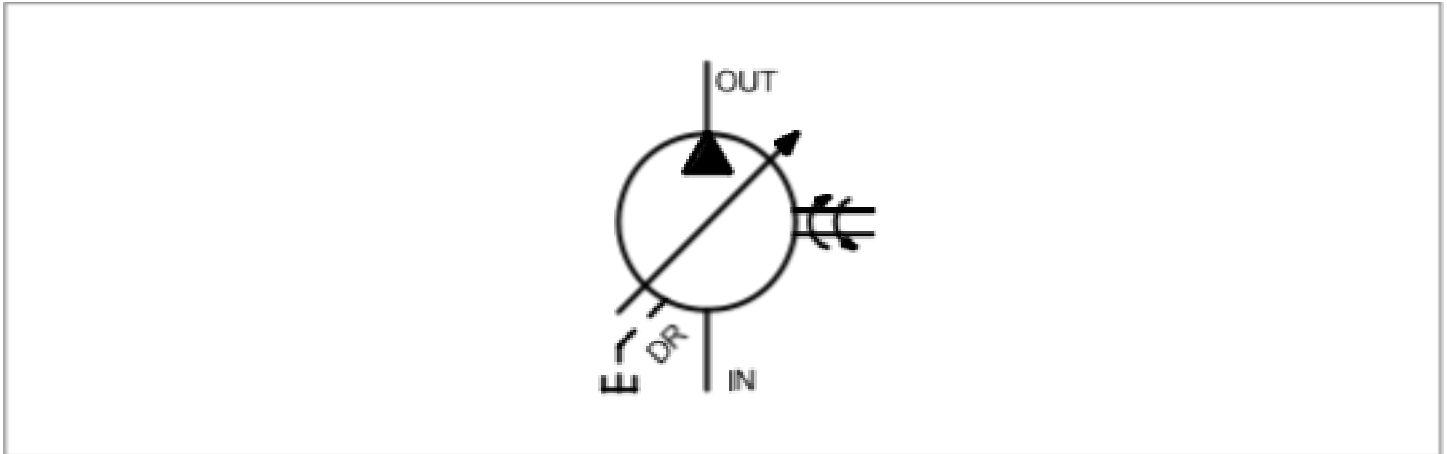
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## Features

- Small and light design, space saving. Special alloy material, power saving, low noise, long life.
- Easy to assemble, clean appearance and light weight.
- Application for CNC lathe machine, bending machine,
- punch hydraulic press, high efficiency machine.

## ■ Symbols



## Technical data

Size	Model	Displacement Pump delivery 7bar				Pressure adjustment range		Speed		Weight kg
		cm <sup>3</sup> /rev	in <sup>3</sup> /rev	1500 RPM	1800RPM	B(bar)	C(bar)	Max (RPM)	Min (RPM)	
1	AR 10	10.0	0.61	15	18	12~70	12~210	1800	500	9
2	AR 16	15.8	0.96	23.7	28.44					
3	AR 22	22.2	1.35	33.3	39.96					

- Installation outlet port top, the pipe have to be less than 2 bar. The use of max. pressure @210 bar not to exceed 6 milli second with clean hydraulic oil. THM offer tandem pumps, and other pumps connection, the connection type use Metric version and SAE version dimensions.

### Ordering code

AR 16 F R 01 C S K 40 T

Series  
Axial piston pump

= AR

Size and Displacement

Displacement	
cm <sup>3</sup> /rev	in <sup>3</sup> /rev
10.0	0.61
15.8	0.96
22.2	1.35

in<sup>3</sup>=16.378cm<sup>3</sup>

Size
10
16
22

Mounting  
Flange mtg  
Foot mtg

= F  
= L

Rotation  
Clockwise  
Counter clockwise

= R  
= L

Control type  
Standard pressure control

= 01

Pressure adjusting range  
2~70bar  
12~210bar

= B  
= C

Port position  
Axial port Side  
port Outlet flange  
type

= No code  
= S = F

Shaft type  
Key

= K

Thread type  
BSP(G)

= 40

Series  
Fiable make  
Seals

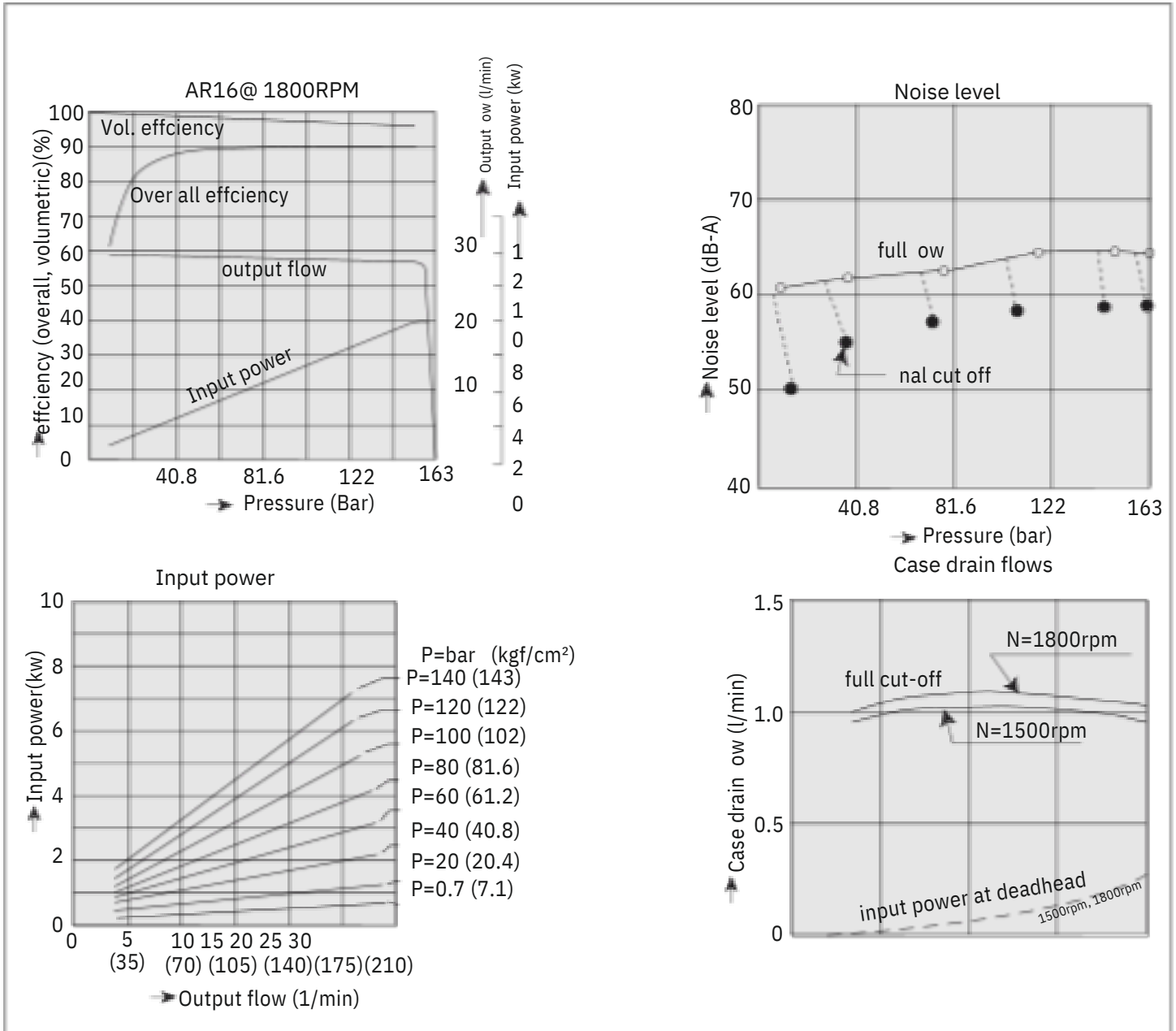
= T

NBR  
VITON

= No code  
= V

### Performance data of AR16

Speed: 1800r/min Hydraulic oil: ISO VG32 Oil temperature: 50°C

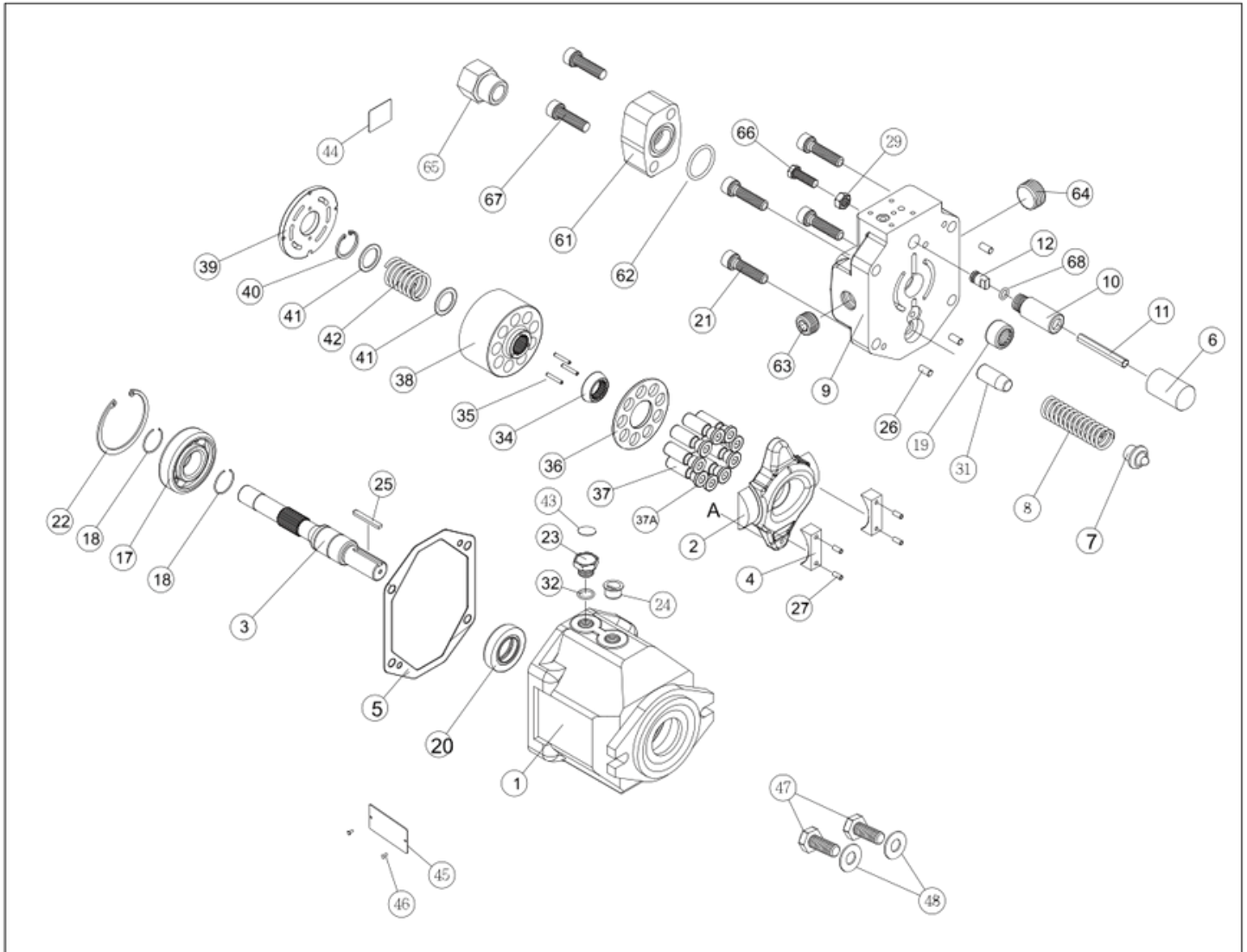


Test condition:

The noise of the single pump is according to the standard of DIN45 635, measuring that the distance of microphone is 1m and 1500rpm.



### Exploded view of AR10, AR16, AR22



Item	Item	Item			
1	Pump body	22	Snap ring	41	Washer cylinder block
2	Swashplate	23	Screw	42	Spring-cylinder block
3	Shaft	24	Plug	43	Circular sticker
4	Trunnion carrier	25	Key	44	Square sticker
5	Body seal	26	Roller	45	Nameplate
6	Servo piston sleeve	27	Pin-trunnion carrier	46	Motor pin
7	Servo carrier	29	Nut	47	Screw
8	Servo spring	31	Sleeve piston	48	Washer
9	Pump cover	32	O-ring	61	Flange
10	Flow sleeve	34	Ball guide	62	O-ring
11	Flow pin	35	Pin-cylinder block	63	Plug
12	Seal pin	36	Slipper retainer	64	Plug
17	Shaft bearing	37A	Piston shoe	65	Adapter
18	Snap ring	37	Piston assembly	66	Spindle
19	Cover bearing	38	Cylinder block	67	Screw
20	Shaft seal	39	Valve plate	68	O-ring
21	Cover screw	40	Snap ring		