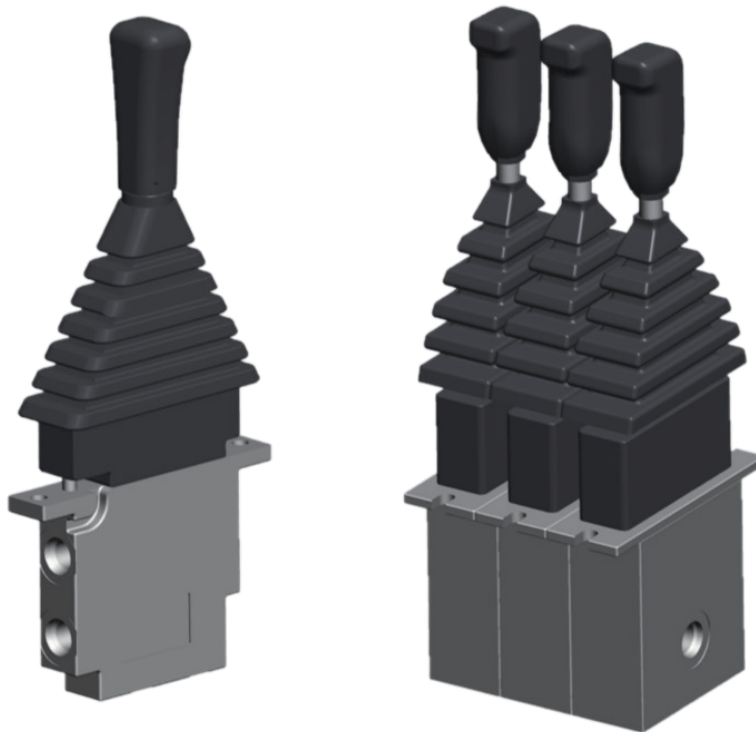


Technical Information

DHRC

Hydraulic Pilot Sectional valve



DHRC is part of **D-HRC** series.

D-HRC means **Danfoss Hydraulic Remote Control** valves which include:

DHRCJ — — Hydraulic Joystick

DHRC**D** — — Hydraulic Pilot Sectional Valve

DHRC**P** — — Hydraulic Foot Pedals

Excavator
Crane
Loader
AWP

Forklift
Drilling machine
Special vehicles

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DHRC General Description



Description

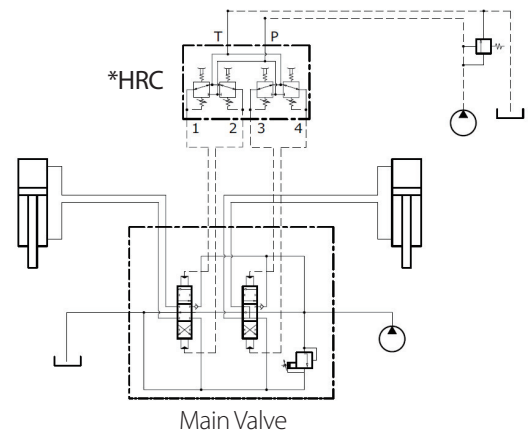
Hydraulic Remote Controls (HRCs) are used to activate and control directional valves or pumps from a remote and single operating station. HRCs come in hand, foot and mechanically operated versions, like the DHRC series, sectional hydraulic pilot valve. Each section can achieve single axis direction pilot control. There are options for single and multi section type. Suitable for various applications such as excavators, cranes, forklifts, and backhoe loader. Flexible configuration with multiple valve bodies, handles, and function options. It has excellent handling performance, sturdy and durable design, and reliable quality.

Operation

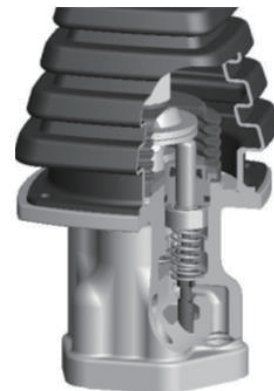
HRCs are fed a constant input pressure, from which they create reduced output pressures that vary proportionally with lever or pedal stroke. When the HRC is operated, output pilot pressure flows to the main directional control valves, precisely controlling main spool position and direction.

D-HRC Features

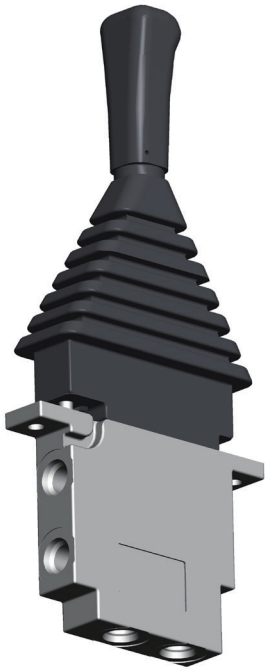
- **Market leader** with over 30 years of industry experience.
- **Precision control** with less leakage, close to flat hysteresis and excellent linearity.
- **Reliability and Quality.**
- **Ergonomic efficiency and customization capabilities** provide unparalleled flexibility.



*Schematic exemplification can be either one of the DHRC products.



DHRCD General specification



Hydraulic specification:

Max. inlet pressure (bar)	50
Max. back pressure (bar)	3
Rated flow (LPM/Section)	10 each
Output pressure (bar)	0~30
Fluid type	Mineral oil
Fluid temperature	-20°C to 90°C
Ambient temperature	-40°C to 60°C
Viscosity	12~400 mm ² /s
Max level of fluid contamination	18/16/13 –ISO 4406

Mechanical specification:

Weight for refer (Kg/Section)	Grip	0.2~0.3
	Body Assy	0.8~1
	Total	0.8~1.3
Operation angle range (°)	13 ~ 26.5	
Operation torque range (Nm)	0.35 ~ 1.3	
Lifecycle	>1,000,000 cycles	

Note: Detailed operating angle and torque are provided on the drawings.

Electric specification:

A type lever push button	NO IP	3A 125VAC
G type lever push button	NO IP	5A 125VAC

DHRC Configuration

Model code example:	DHRC	1	1	1	1	0	MX	A01	000
Model code position in catalogue:	1.2.3.4.5	6	7	8	10	12	13,14	16,17,18	...
Description:	Series	Body type	Section quantity	Port	Port	Switch	Electric connector	Output pressure for port1	Output pressure for other ports...

1. Single standard*
2. Single with extra inlet block
3. Single detent
4. Sectional bandwidth 35[1.378]*
5. Sectional bandwidth 35 with harness hole
6. Sectional bandwidth 45[1.771]

1. section
2. sections
3. sections
4. sections
5. sections

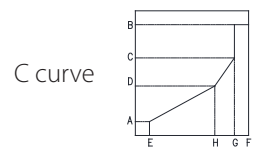
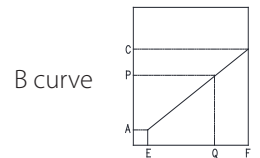
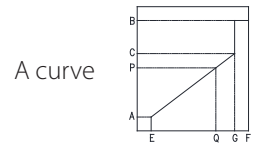
1. BSPP G1/4 O-ring sealing
2. BSPP G1/4 (ISO 1179-1) Flat sealing
3. UNF 9/16 (ISO 11926-1) O-ring sealing

0. Without lever and bar
1. A type lever and A type bar
2. A type bar bar

...
Note: See lever and bar table

0. No switch
1. Front one button for A type lever
2. Front one button for G type lever

000 Not applicable
A## A type pressure curve
B## B type pressure curve
C## C type pressure curve
 Note: See curve table



X
A
B
C
 ...

Note: Maximum two electric connectors.
 See electric connector table

Note:

Above is simple version of model code, only focus on main requirement information. If have more requirement or need more information, please find details in catalogue.

"*" means most recommend option.

DHRCO Options

Body type – Model code position 6

Model code position 6	Description	3D diagram	2D diagram	Schematic
1	Single standard			
2	Single with extra inlet block			
3	Single detent			
4	Sectional type bandwidth 35[1.378]			
5	Sectional type bandwidth 35 with harness hole			

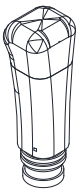

Lever and bar -- Model code position 10

Model code position 10	Description	Diagram
0	Without lever and bar	
1	A type lever with A type bar	
2	A type bar only	
3	B type lever with B type bar	
4	B type bar only	
5	C type bar only 30 degree to the left side from P,T port	
6	C type bar only 30 degree to the right side from P,T port	




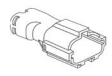

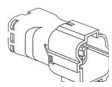
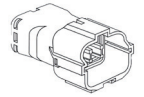
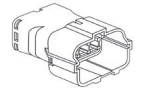
Model code position 10	Description	Diagram
7	D type bar only	
8	G type lever with G type bar 6degree	
9	B type lever with E type bar 10degree to the left side from P,T port	
A	G type bar only 6degree	
B	F type bar only 30degree	

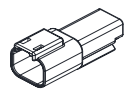
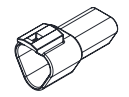
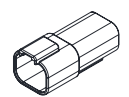
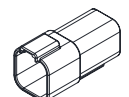
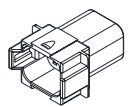
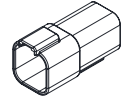
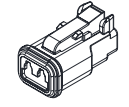

DHRCO Options

Switch- – Model code position 12

Model code position 12	Description	Diagram
1	Front one button for A type lever	
2	Front one button for G type lever	

Electric connector – Model code position 13,14

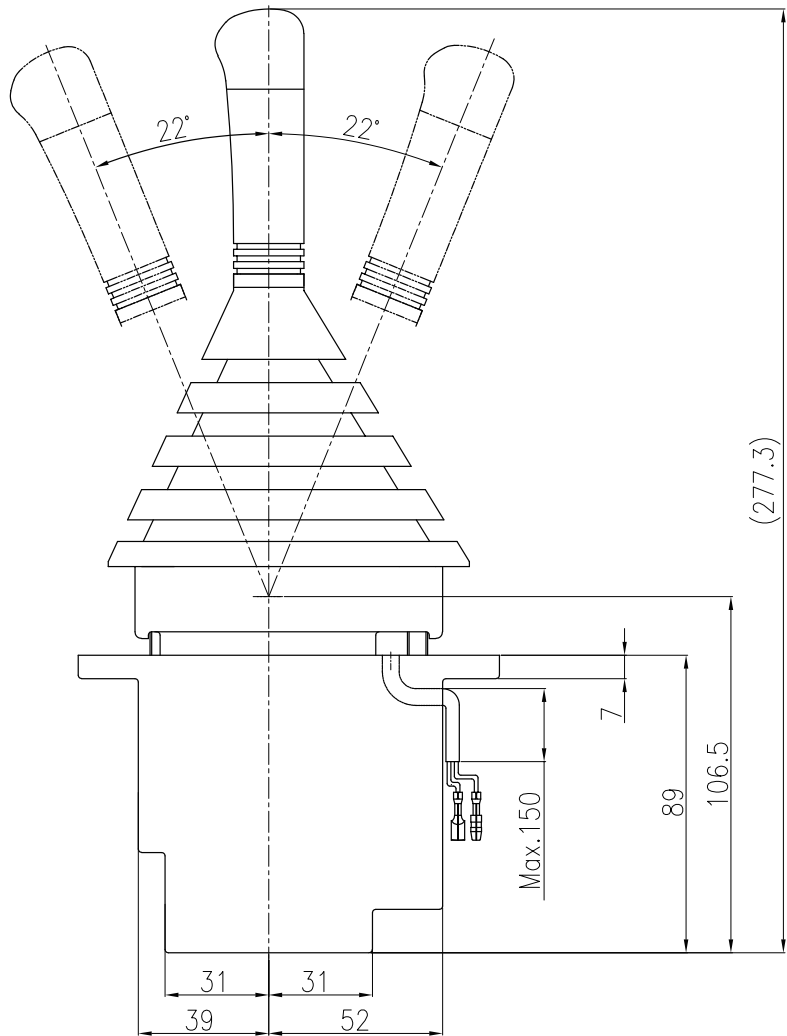
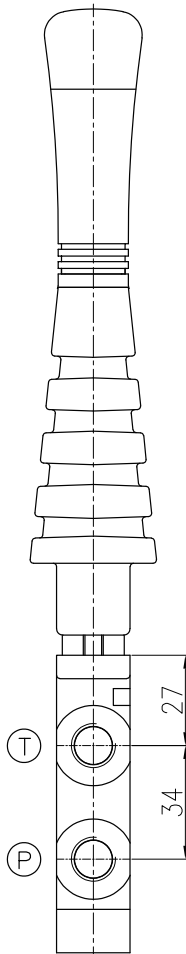
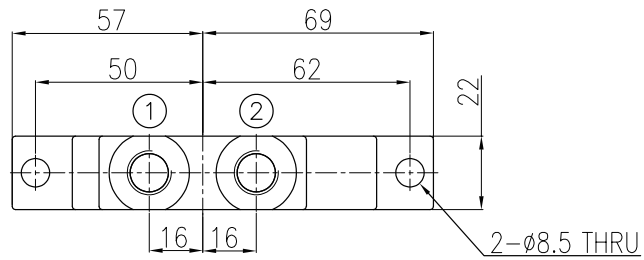
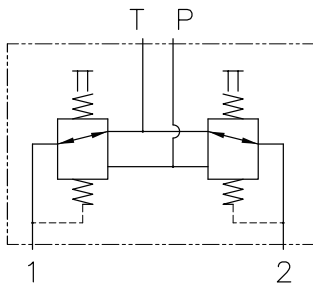
Model code position 23~26	Description	Diagram
X	No connector	
A	JIS D5403 CA104 & CB104 terminal end	
B	JIS D5403 CA104 2EA terminal end male	
C	JIS D5403 CB104 2EA terminal end female	
D	Korea Electric Terminal KET 2Pin	
E	Korea Electric Terminal KET 3Pin	
F	Korea Electric Terminal KET 4Pin	
G	Korea Electric Terminal KET 6Pin	
H	Korea Electric Terminal KET 8Pin	

Model code position 23~26	Description	Diagram
I	Deuchi DT04-2P Receptacle Assembly	
J	Deuchi DT04-3P Receptacle Assembly	
K	Deuchi DT04-4P Receptacle Assembly	
L	Deuchi DT04-6P Receptacle Assembly	
M	Deuchi DT04-08PA Receptacle Assembly	
N	Deuchi DT04-6P-E004 Receptacle Assembly	
O	Deuchi DT06-2S Plug Assembly	
P	Female crimp terminal	

DHRCD Dimensions

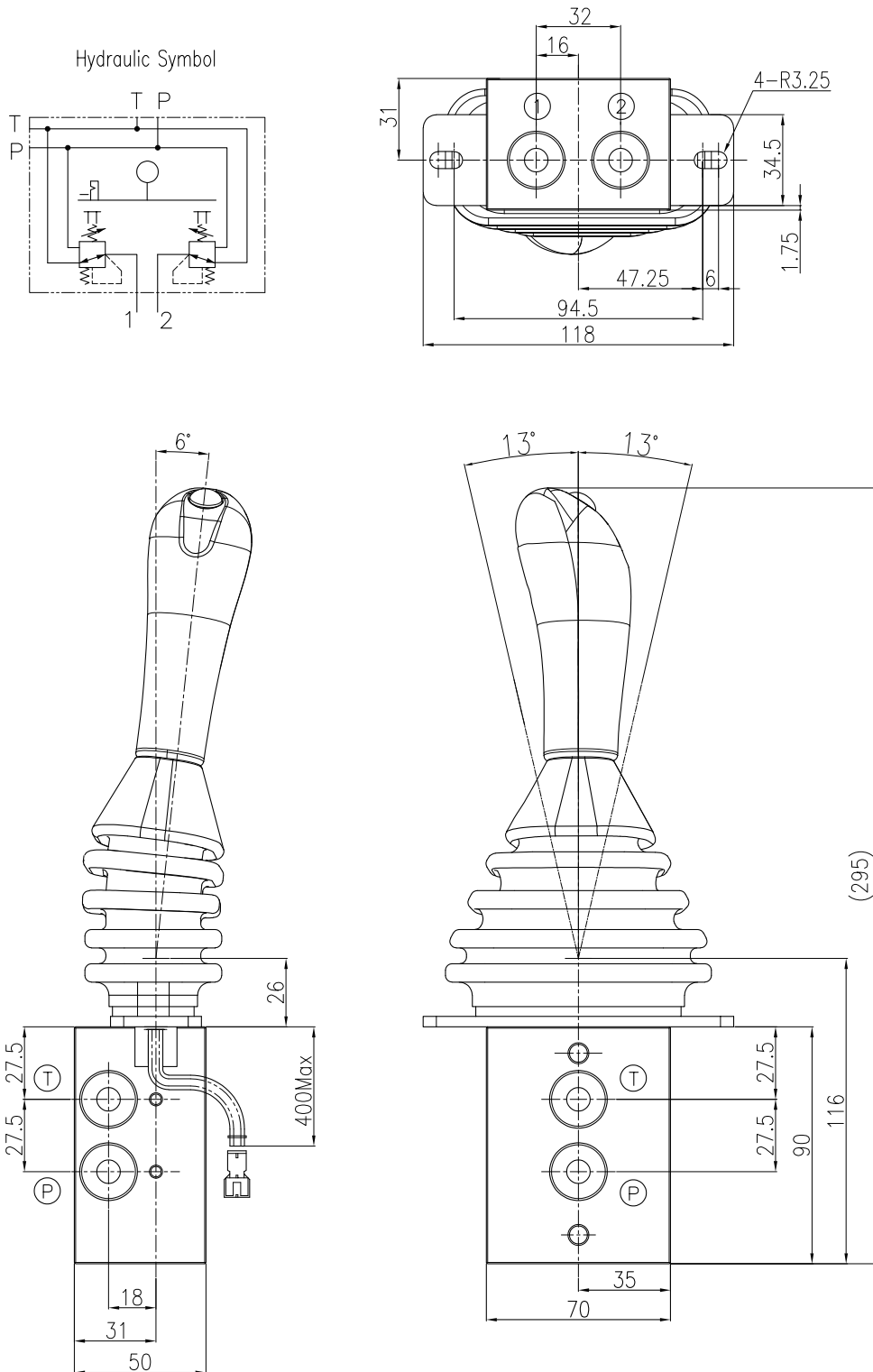
Single standard

Hydraulic Symbol



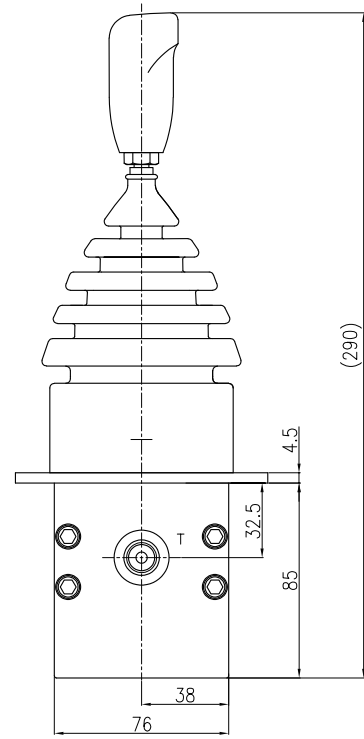
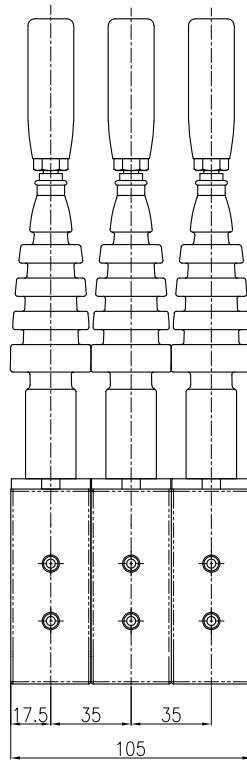
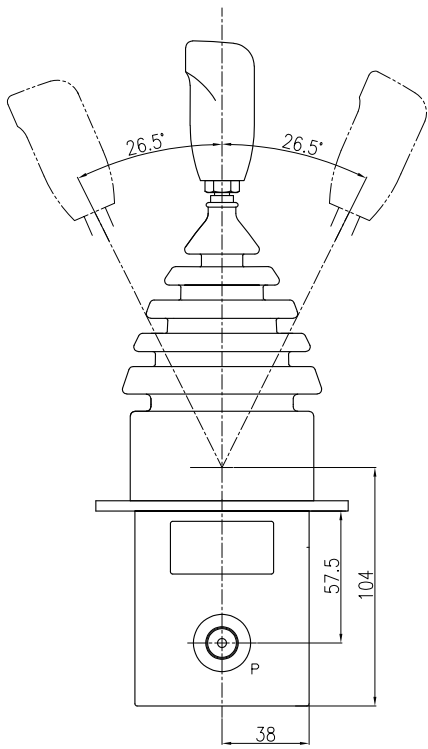
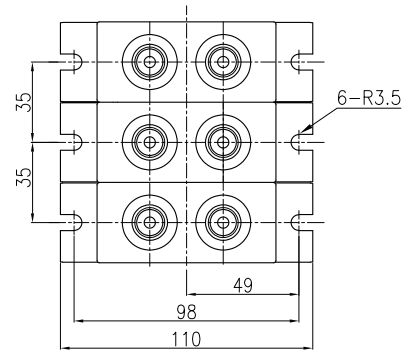
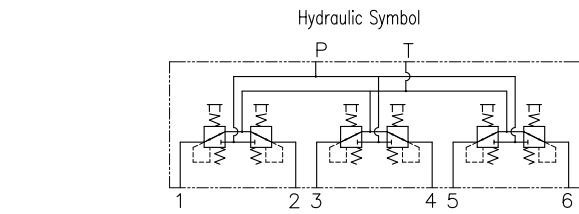
DHRCD Dimensions

Single detent



DHRCD Dimensions

Sectional



Revision history

Date	Changed	Rev
March 2024	New created	A

Products we offer:

- Cartridge valves
- DCV directional control valves
- Electric converters
- Electric machines
- Electric motors
- Fluid Conveyance
- Gear motors
- Gear pumps
- Hydraulic integrated circuits (HICs)
- Hydrostatic motors
- Hydrostatic pumps
- Industrial hydraulics
- Orbital motors
- PLUS+1° controllers
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- PLUS+1° software services, support and training
- Position controls and sensors
- PVG proportional valves
- Steering components and systems
- Telematics

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