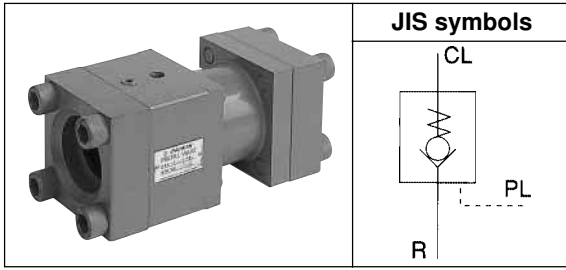


# Prefill valve



## Features

- This valve is used as a suction/exhaust valve between an oil hydraulic cylinder and a tank. In a quick forward stroke of a large press machine, this valve sucks oil from a tank to an oil hydraulic cylinder, while in a pressurization process, it obstructs a reverse flow from a hydraulic cylinder to a tank, and in a return process, exhausting oil from a hydraulic cylinder to a tank.

## Nomenclature

\* - **HPF** - **F** \*\* - \* - \*\* - \*

1   
 2   
 3 4   
 5   
 6   
 7

### (1) Nomenclature of applied fluid

No mark : Working oil with petroleum contents,  
 Working oil with water / glycol contents  
 F : Working oil with phosphoric acid ester

### (2) Model No.

HPF : H series pre-fill valve

### (3) Connections

F : Flange connection

### (4) Nominal diameter

16 : 2  
 20 : 2½  
 24 : 3  
 32 : 4

### (5) Clacking pressure mark

1 : 0.005MPa {0.05kgf/cm<sup>2</sup>}  
 2 : 0.015MPa {0.15kgf/cm<sup>2</sup>}

### (6) Design number (design number is subject to change)

10 : Nominal diameter 16 (2), 24 (3), 32 (4)  
 20 : Nominal diameter 20 (2½)

### (7) Option mark

No mark : with flange ★1

N : without flange

Note) ★1 In case that flange is attached, R side flange or CL side flange is attached to the nominal diameter 16, 20 and 24, while R side flange is attached to the nominal diameter 32.

## Specifications

Model code	Nom. Dia.	Max. operating pressure MPa {kgf/cm <sup>2</sup> }			Max. flow rate L/min		Area ratio Seat: Pilot piston	Weight ★2 kg
		CL side	R side	Pilot pressure	R→CL	CL→R		
HPF-F16-*-10	2	25 {250}	2 {20}	25 {250}	160	320	1.66:1	6.1
HPF-F20-*-20	2½				320	640	2.37:1	12
HPF-F24-*-10	3				500	1000	2.93:1	15.5
HPF-F32-*-10	4				900	1800	3.05:1	18.9

Note) ★2 It doesn't include weights of flange and bolts.