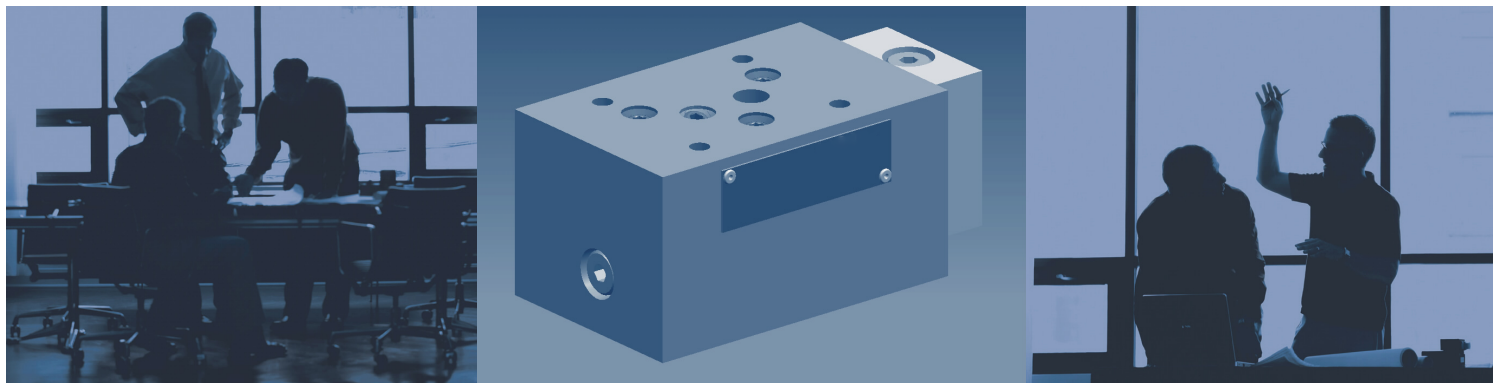




Sandwich plate with integrated throttle check valve

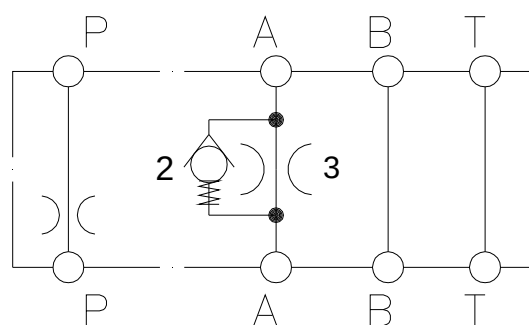
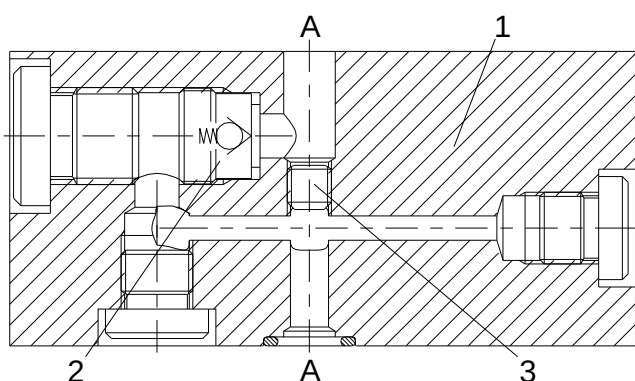
(06/2014)

Sandwich plate throttle check valves (ZFDR)

Size 06 and 10

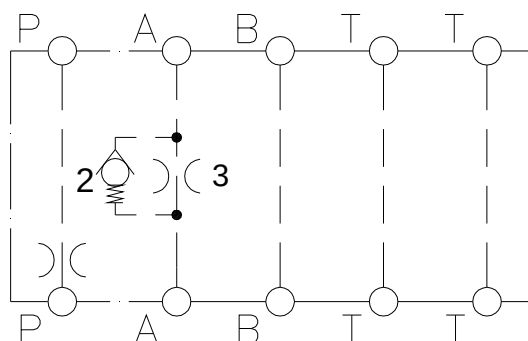
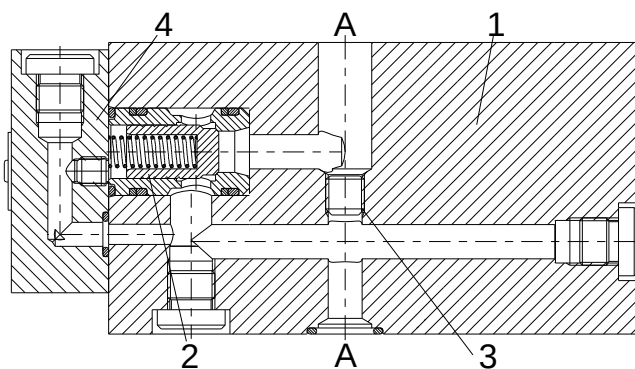
ZFDR valves are throttle check valves housed in a sandwich plate. These valves enable full flow over the check valve to the cartridge main stage when closing. During opening of the main stage, flow is limited over the orifice, regulating the opening speed. The opening pressure of the check valve is approximately 0.3 bar.

Size 06



- Sandwich plate housing (1)
- Check valve (2)
- Throttling orifice (3)

Size 10

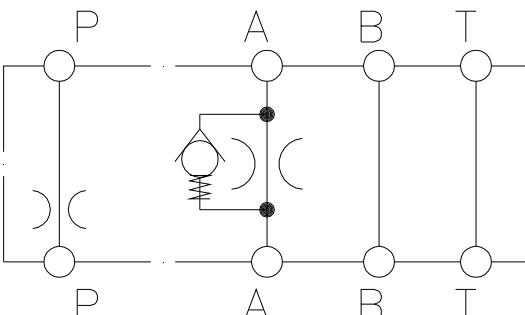


- Sandwich plate housing (1)
- Check valve (2)
- Throttling orifice (3)
- Cartridge cover (4)



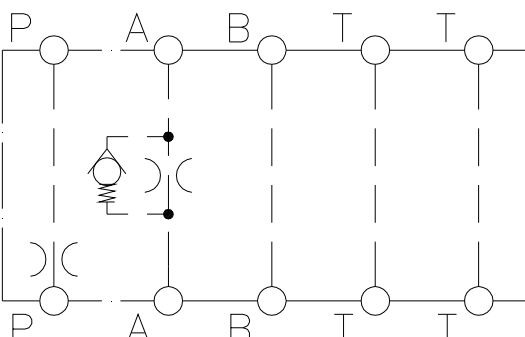
Part Numbers and Valve Use

Size 06

	Description	Part number
	M-ZFDRP06A4K0AS/A06	XEB15159-006M01
	M-ZFDRP06A4K0AS/A12	XEB15159-002M01
	M-ZFDRP06A4K0AS/A15	XEB15159-001M01
	M-ZFDRP06A4K0AS/A20	XEB15159-007M01
	M-ZFDRP06A4K0AS/A25	XEB15159-008M01

Check valve opening pressure is 0.3 bar; The number at the end of the description (AXX) indicates the size of the throttling orifice in 1/10th mm. Example: A15 = 1.5mm orifice in A.

Size 10

	Description	Part number
	M-ZFDRP10A4K0AS/CEE10;A20	XEB17522-004M01
	M-ZFDRP10A4K0AS/CEE10;A25	XEB17522-005M01
	M-ZFDRP10A4K0AS/CEE10;A30	XEB17522-006M01
	M-ZFDRP10A4K0AS/CEE10;A35	XEB17522-003M01
	M-ZFDRP10A4K0AS/CEE10;A40	XEB17522-002M01

Check valve opening pressure is 0.3 bar; the number at the end of the description (Axx) indicates the size of the throttling orifice in 1/10th mm. Example: A15 = 1.5mm orifice in A.

Seal materials - ZFDR valves are available in the following seal combinations:

N = NBR (Nitrile Butadiene Rubber)

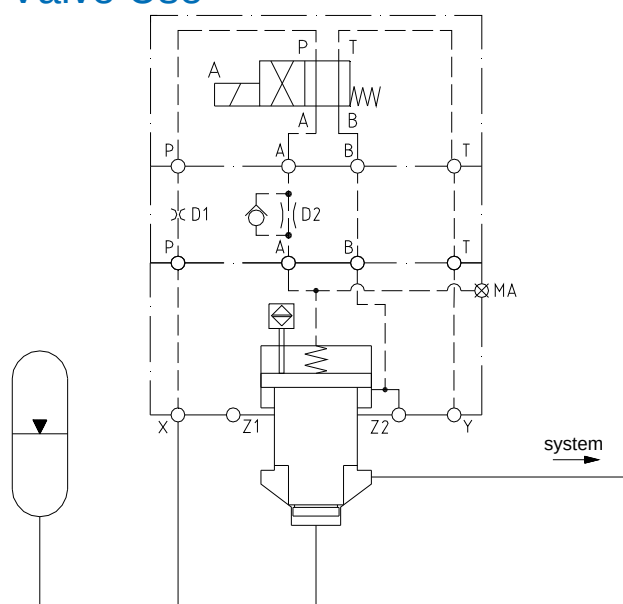
T = NBR + PU (Polyurathane Elastomer)

V = FKM (Fluorelastomer, Viton®)

M = FKM + PU

Please use the first letter of the description to indicate the desired seal configuration.

Valve Use



In the example shown, an accumulator is isolated using a position monitored active cartridge.

The D2 orifice of the ZFDR valve limits the the opening speed of the cartridge.

The closing speed is determined by the size of the D1 orifice.

Note: when configuring a setup like this, please take into consideration the balance of forces acting on the cartridge poppet.

For further assistance please contact us.

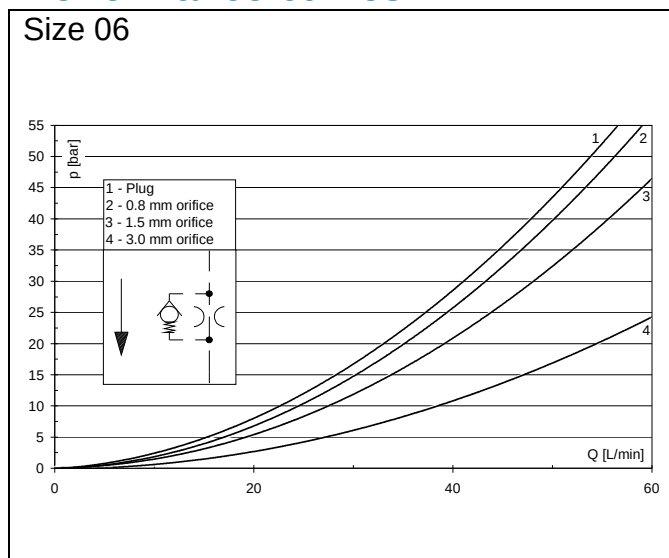
Technical Data - Performance Curves

Technical Data

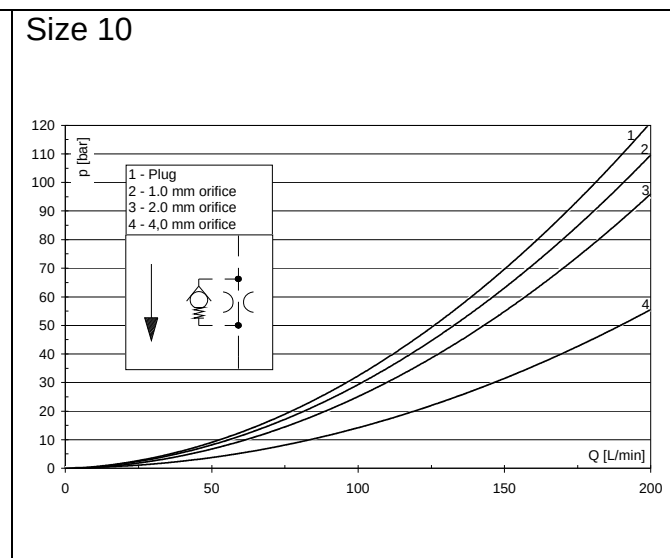
	Symbol	Unit	Size 06	Size 10	Comment
Port pattern					
ISO 4401-03-02-0-94			X		
ISO 4401-05-04-0-94				X	
Dimensions		mm			see dimensions on next page
Orientation					any
Flow, maximum	$Q_{\max}$	L/min			see performance curves below
Ambient temperature range	$T_{\min}$	°C	-10	-10	
	$T_{\max}$	°C	+80	+80	
Working pressure					
Inlet pressure, maximum		bar	350	350	
Outlet pressure, maximum		bar	350	350	
Fluid temperature range	$T_{\min}$	°C	-10 (FKM/PU); -20 (NBR)		
	$T_{\max}$	°C	+80	+80	
Fluid viscosity range	$\nu_{\min}$	mm ² /s [cSt]	2,8	2,8	
	$\nu_{\max}$	mm ² /s [cSt]	380	380	
Operating viscosity	ν	mm ² /s [cSt]	35	35	
Weight	m	kg	1,2	3,7	
Check valve opening pressure	p_o	bar	0,3	0,3	other opening pressures available on request

Performance curves

Size 06

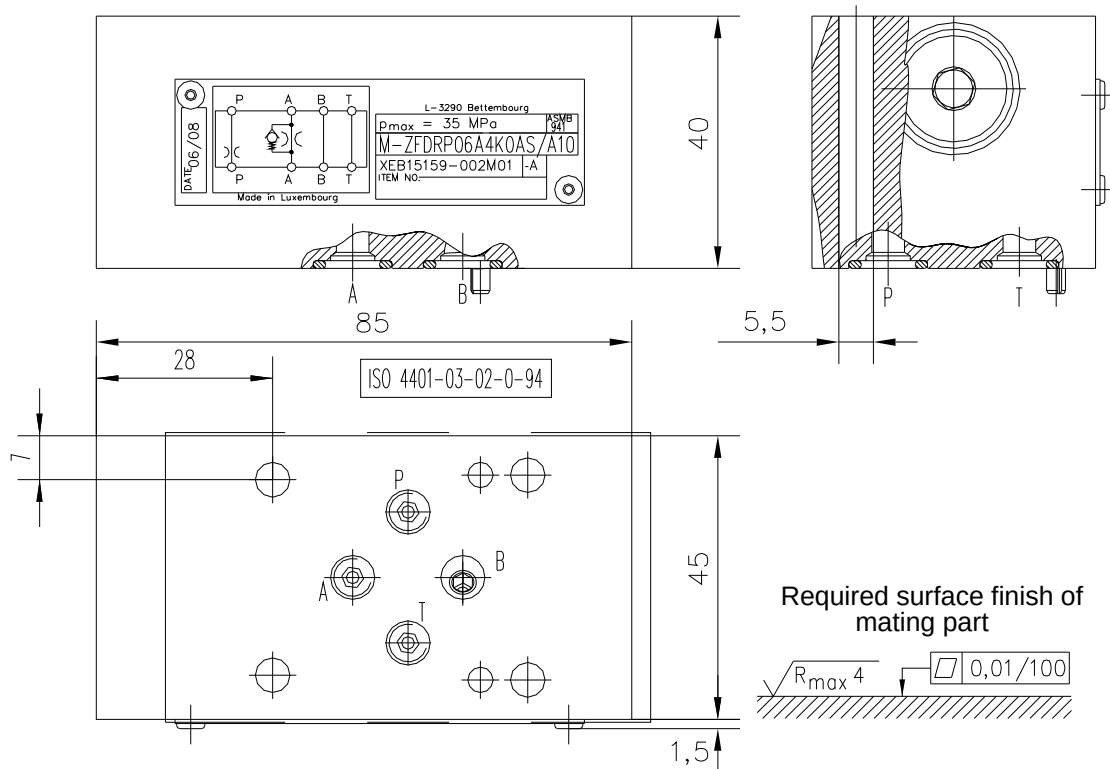


Size 10

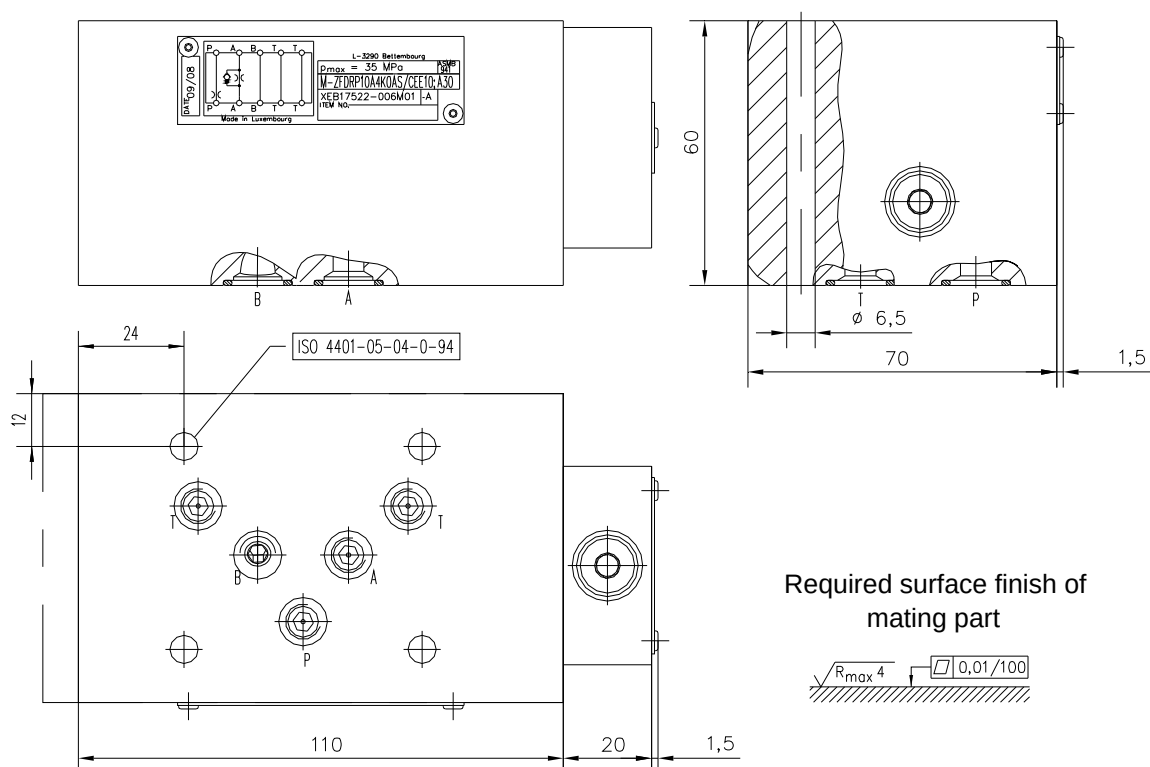


Dimensions

Size 06



Size 10



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ZFDRP-Throttle Check Sandwich Plates-EN
ZFDRP-CDL66651-001-06_2014-EN

For more information contact us online.

office@axxeron-hydrolux.com

www.axxeron-hydrolux.com

