



# Technical Data

## Hydrovalves > 100 series



### DESCRIPTION:

#### Application

- Fluid regulation and control in irrigation systems, civil and industrial

#### Specifics

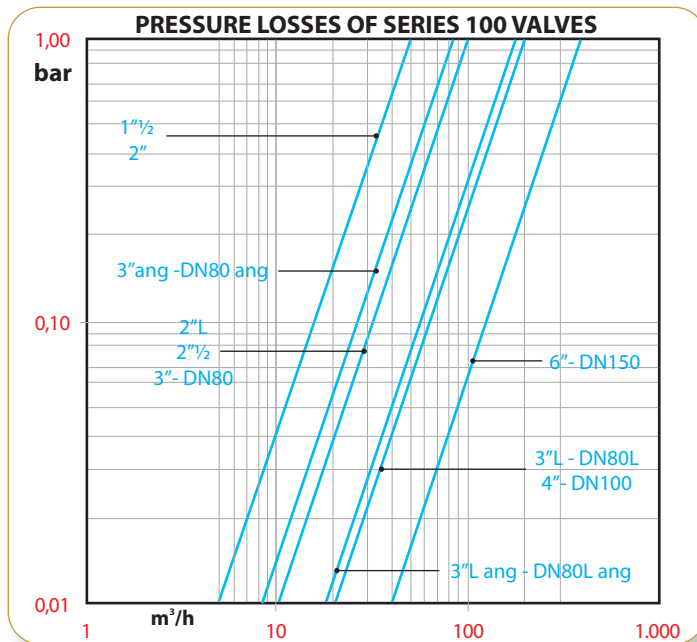
- Hydraulic drive valves with network pressure
- Hydraulically controlled open/close
- Plastic body valve for industrial applications
- Long term duration, cavitation and chemical products resistant
- "Y" body valve with "free flow" design
- Ultra-high flow-rate - Low load losses

#### Features

- An ultra flexible diaphragm and a controlled closure ensure a total passage giving a precise and steady regulation
- An extremely high flow-rate is assured
- The unique high flow body design, allows different kinds of use, and different connection possible
- Body and special flanges allow to isolate the valve from vibration stress
- Mechanical closure supplied as standard
- Manual selector 3 positions included

#### Materials

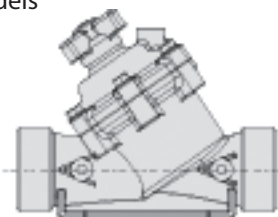
- Body, cap and shutter: black polyamide (nylon)-6 30GF
- Diaphragm: NR
- Seals: NR
- Spring: stainless steel
- Cap bolts: stainless steel



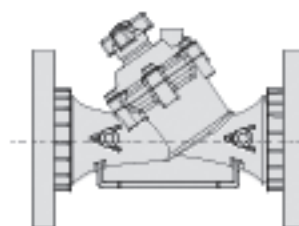
### KV FLOW-RATE FEATURE (M<sup>3</sup>/H AT 1 BAR LOAD LOSS)

Dimension	DN	40	50	50	50L	65	80	80	80L	80L	100	100	100L	150R	150
	Inches	1 1/2	2"	2"	2"L	2 1/2	3"	3"	3"L	3"L	4"	4"	4"L	6"R	6"
Body		Y	Y	A	Y	Y	Y	A	Y	A	Y	A	Y	Y	Y
Kv		50	50	50	100	100	100	85	200	190	200	190	340	340	400

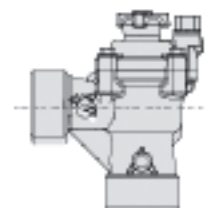
#### Available models



Threaded Y in line  
1 1/2" ÷ 4"



Flanged Y in line  
DN50 ÷ 150



Angle threaded  
2" ÷ 3"



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Mechanical closing						24 V AC electric command (3 ways relay valve)					
In line Y threaded		In line Y flanged		Angle, threaded		In line Y threaded		In line Y flanged		Angle, threaded	
Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code
1½"	FERB003	DN80	FERB011	3"	FERB009	1½"	FERB031	DN80	FERB039	3"	FERB037
2"	FERB004	DN80L	FERB012	3"L	FERB010	2"	FERB032	DN80L	FERB040	3"L	FERB038
2"L	FERB005	DN100	FERB013			2"L	FERB033	DN100	FERB041		
2½"	FERB006	DN100-L	FERB016			2½"	FERB034	DN100-L	FERB620		
3"	FERB007	DN150-R	FERB015			3"	FERB035	DN150-R	FERB621		
3"T	FERB600	DN150	FERB014			3"T	FERB604	DN150	FERB042		
3"L	FERB008					3"L	FERB036				

24 V AC electric command (2 ways relay valve)						12V DC latch electric command (3 ways relay valve)					
In line Y threaded		In line Y flanged		Angle, threaded		In line Y threaded		In line Y flanged		Angle, threaded	
Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code
2"L	FERB027	DN80	FERB030	3"	FERB217	1½"	FERB049	DN80	FERB057	3"	FERB055
2½"	FERB028					2"	FERB050	DN80L	FERB058	3"L	FERB056
3"	FERB029					2"L	FERB051	DN100	FERB059		
3"T	FERB603					2½"	FERB052	DN100-L	FERB622		
						3"	FERB053	DN150-R	FERB623		
						3"T	FERB606	DN150	FERB060		
						3"L	FERB054				

12V DC latch electric command (2 ways relay valve)						Hydraulic command (3 ways relay valve) manual selector					
In line Y threaded		In line Y flanged		Angle, threaded		In line Y threaded		In line Y flanged		Angle, threaded	
Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code
2"L	FERB045	DN80	FERB048	3"	FERB616	1½"	FERB691	DN80	FERB700	3"	FERB697
2½"	FERB046					2"	FERB692	DN80L	FERB715	3"L	FERB698
3"	FERB047					2"L	FERB693	DN100	FERB716		
3"T	FERB605					2½"	FERB694	DN100-L	FERB717		
						3"	FERB695	DN150	FERB718		
						3"L	FERB696				

Pressure reducer (2 ways relay valve)						Pressure reducer (3 ways relay valve)					
In line Y threaded		In line Y flanged		Angle, threaded		In line Y threaded		In line Y flanged		Angle, threaded	
Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code
1½"	FERB061	DN80	FERB069	3"	FERB067	1½"	FERB073	DN80	FERB081	3"	FERB079
2"	FERB062	DN80L	FERB070	3"L	FERB068	2"	FERB074	DN80L	FERB082	3"L	FERB080
2"L	FERB063	DN100	FERB071			2"L	FERB075	DN100	FERB083		
2½"	FERB064	DN100-L	FERB624			2½"	FERB076	DN100-L	FERB626		
3"	FERB065	DN150-R	FERB625			3"	FERB077	DN150-R	FERB627		
3"T	FERB607	DN150	FERB072			3"T	FERB608	DN150	FERB084		
3"L	FERB066					3"L	FERB078				



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Pressure reducer (3 ways relay valve) Remote hydraulic command						Pressure reducer (2 ways relay valve) 24 V AC electric command					
In line Y threaded		In line Y flanged		Angle, threaded		In line Y threaded		In line Y flanged		Angle, threaded	
Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code
1½"	FERB097	DN80	FERB105	3"	FERB103	1½"	FERB109	DN80	FERB117	3"	FERB115
2"	FERB098	DN80L	FERB106	3"L	FERB104	2"	FERB110	DN80L	FERB118	3"L	FERB116
2"L	FERB099	DN100	FERB107			2"L	FERB111	DN100	FERB119		
2½"	FERB100	DN100-L	FERB628			2½"	FERB112	DN100-L	FERB630		
3"	FERB101	DN150-R	FERB629			3"	FERB113	DN150-R	FERB631		
3"T	FERB609	DN150	FERB108			3"T	FERB611	DN150	FERB120		
3"L	FERB102					3"L	FERB114				

Pressure reducer (3 ways relay valve) 24 V AC electric command						Pressure reducer (3 ways relay valve) 12V DC latch electric command					
In line Y threaded		In line Y flanged		Angle, threaded		In line Y threaded		In line Y flanged		Angle, threaded	
Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code
1½"	FERB121	DN80	FERB129	3"	FERB127	1½"	FERB133	DN80	FERB141	3"	FERB139
2"	FERB122	DN80L	FERB130	3"L	FERB128	2"	FERB134	DN80L	FERB142	3"L	FERB140
2"L	FERB123	DN100	FERB131			2"L	FERB135	DN100	FERB143		
2½"	FERB124	DN100-L	FERB632			2½"	FERB136	DN100-L	FERB634		
3"	FERB125	DN150-R	FERB633			3"	FERB137	DN150-R	FERB635		
3"T	FERB612	DN150	FERB132			3"T	FERB618	DN150	FERB144		
3"L	FERB126					3"L	FERB138				

Mechanical closing - Pressure reduction + sustain (3 ways relay valve)						Pressure sustain (3 ways relay valve)					
In line Y threaded		In line Y flanged		Angle, threaded		In line Y threaded		In line Y flanged		Angle, threaded	
Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code
1½"	FERB145	DN80	FERB153	3"	FERB151	1½"	FERB157	DN80	FERB165	3"	FERB163
2"	FERB146	DN80L	FERB154	3"L	FERB152	2"	FERB158	DN80L	FERB166	3"L	FERB164
2"L	FERB147	DN100	FERB155			2"L	FERB159	DN100	FERB167		
2½"	FERB148	DN100-L	FERB636			2½"	FERB160	DN100-L	FERB638		
3"	FERB149	DN150-R	FERB637			3"	FERB161	DN150-R	FERB639		
3"T	FERB613	DN150	FERB156			3"T	FERB614	DN150	FERB168		
3"L	FERB150					3"L	FERB162				

Pressure sustain (3 ways relay valve) 24 V AC electric command						Pressure quick discharge					
In line Y threaded		In line Y flanged		Angle, threaded		In line Y threaded		In line Y flanged		Angle, threaded	
Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code
1½"	FERB169	DN80	FERB177	3"	FERB175	1½"	FERB181	DN80	FERB189	3"	FERB187
2"	FERB170	DN80L	FERB178	3"L	FERB176	2"	FERB182	DN80L	FERB190	3"L	FERB188
2"L	FERB171	DN100	FERB179			2"L	FERB183	DN100	FERB191		
2½"	FERB172	DN100-L	FERB640			2½"	FERB184	DN100-L	FERB642		
3"	FERB173	DN150-R	FERB641			3"	FERB185	DN150-R	FERB643		
3"T	FERB615	DN150	FERB180			3"T	FERB186	DN150	FERB192		
3"L	FERB174										

Modulating level control						Pressure reduction Top (3 ways)					
In line Y threaded		In line Y flanged		Angle, threaded		In line Y threaded		In line Y flanged		Angle, threaded	
Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code	Ø	Code
1½"	FERB193	DN80	FERB201	3"	FERB199	1½"	FERB280	DN80	FERB286	3"	FERB287
2"	FERB194	DN80L	FERB202	3"L	FERB200	2"	FERB281				
2"L	FERB195	DN100	FERB203			2"L	FERB282				
2½"	FERB196	DN100-L	FERB644			2½"	FERB283				
3"	FERB197	DN150-R	FERB645			3"	FERB284*				
3"L	FERB198	DN150	FERB204			3"	FERB285				



\*Without manual closure

Valves