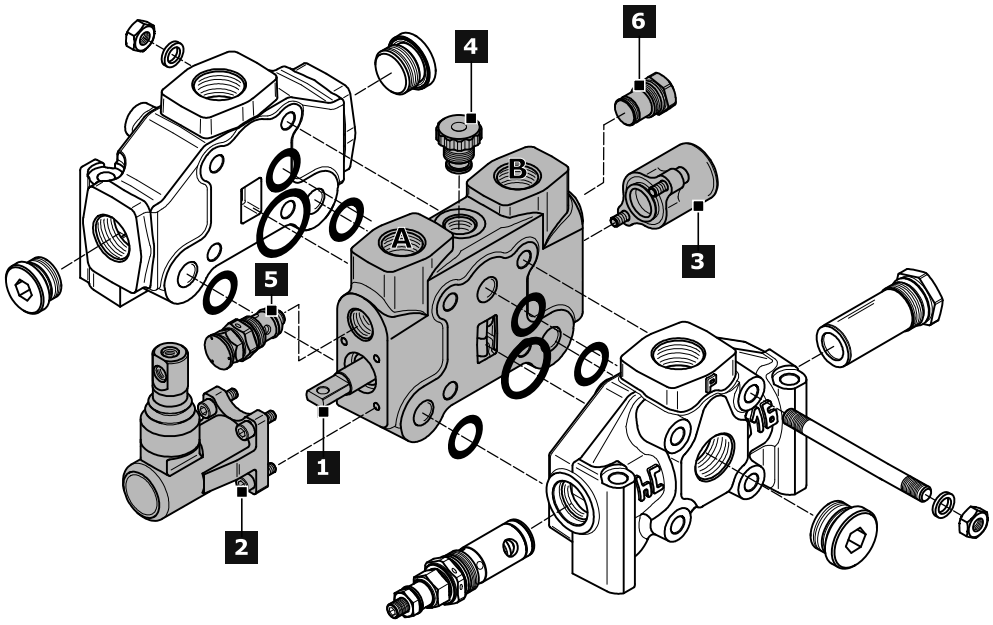
WORKING SECTION

Order example:

W001A	H001	F001A	RP G05	01 PA 100	05 PB

1.	**W001A**	spool type
2.	**H001**	spool actuation type
3.	**F001A**	spool return action type
4.	**RP G05**	section and thread type
5.	**01 PA 100**	auxiliaty valve (port A - handle side)
6.	**05 PB**	auxiliaty valve (port B - cap side)



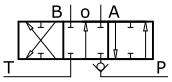
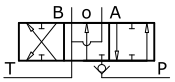
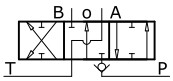
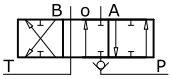
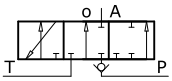
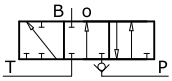
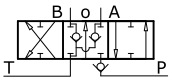
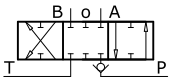
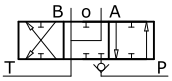
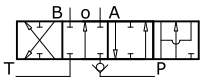
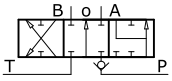
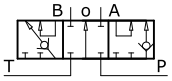
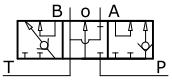
Rif.	Code	Description	Page
1	**W001** **W002**	3 positions double-acting 3 positions double-acting A-B to tank	**14**
2	**H001** **H005**	Protected lever hydraulic actuation	**16**
3	**F001A** **F002A**	3 positions spring-centred spool (spring A) 3 positions spring-centred spool detent in A and B (spring A)	**17**
4	**RP G05** **RP U05** **RS G05** **RS U05**	Parallel circuit (G 3/4) Parallel circuit (1"1/16-12 UNF) Series circuit (G 3/4) Series circuit (1"1/16-12 UNF)	**25**
5	**01 PA 100** **05 PA**	Antishock valve (port A) Prearrangement for auxiliary valve (port A)	**26**
6	**01 PB 100** **05 PB**	Antishock valve (port B) Prearrangement for auxiliary valve (port B)	

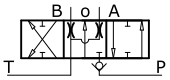
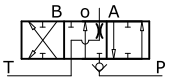
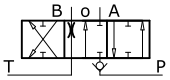
NOTE: (*) Leave out the spool return action code when choosing H005.
Sections designed to house auxiliary valve option require double choice on work ports A and B.
Always indicate setting value when using antishock and combined valve: **01 PA (100) - 03 PA (100)**

Spool identification

order example of spool: **W001 A J10**

W001	spool schema	3 positions double-acting
A	spool type	standard spool
J10	restricted service ports	restriction on diameter (0,10 mm in A and B)

W001	3 positions double-acting	
W002	3 positions double-acting A and B to tank	
W003	3 positions double-acting A to tank B blocked	
W004	3 positions double-acting A blocked B to tank	
W005	3 positions single - acting on A	
W006	3 positions single - acting on B	
W009	3 positions double-acting with anticavitation valves	
W010	3 positions double-acting switch port closed (A - B blocked)	
W011	3 positions double-acting switch port closed (A - B to tank)	
W012	4 positions double-acting with float in the 4th position	
W013	3 positions double-acting regenerative	
W015	3 positions double-acting series	
W016	3 positions double-acting series A and B to tank	

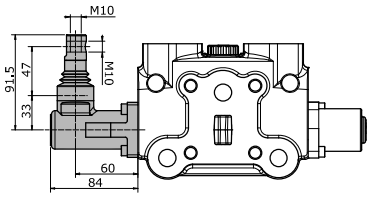
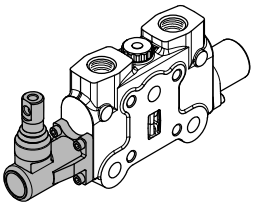
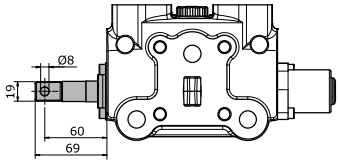
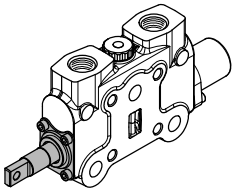
spools with restricted service ports				
code	**circuit**	**restriction on diameter (mm)**	**section (mm²)**	**hydraulic schema**
J10	A-B IN T	0,10	3,13	
K10	A IN T	0,10	3,13	
Y10	B IN T	0,10	3,13	

	spool type available	
CODE	**STANDARD** **A**	**METERED** **B**
W001	W001A	W001B
W002	W002A	W002B
W003	W003A	W003B
W004	W004A	W004B
W005	W005A	W005B
W006	W006A	W006B
W009	W009A	W009B
W010	W010A	
W011	W011A	
W012	W012A	
W013	W013A	
W015	W015A	
W016	W016A	

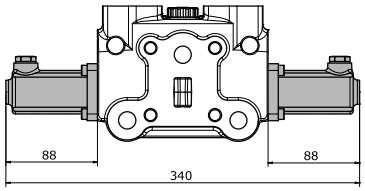
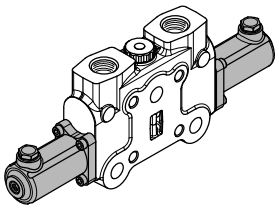
NOTE:
- W012, W013, spools need a special machining on the valve body.
- W015, W016, spools need RS type body.
- Float spool (W012) need special detent kit (F005).
- Regenerative spool (W013) need special return spring kits.
- Different spools are available on request.

Plaese contact our Sales department for more information.

Spool actuation classification for manual control

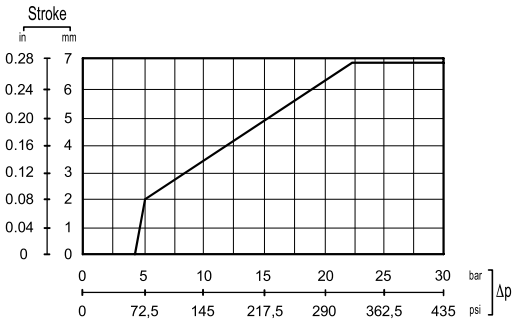
code	description	dimensions	configuration
H001	Protected lever		
H002	Protected lever rotated 180°		
H004	Control without lever		

Spool actuation classification for Hydraulic control

code	description	dimensions	configuration
H006 leave out the spool return action code	Hydraulic actuation with side ports and cast-iron end caps BSP ports = G 1/4 UNF ports = 9/16-18 UNF		

Hydraulic pilot control curve

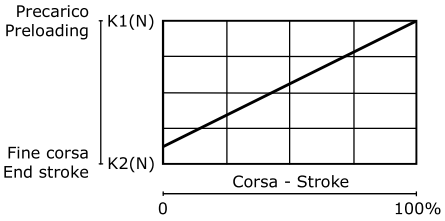
The diagram shows the spool stroke as a function of the pressure operating.

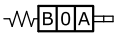
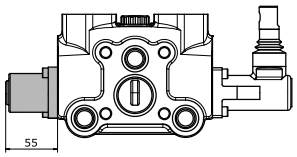
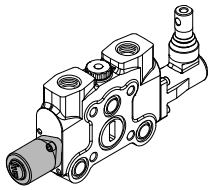
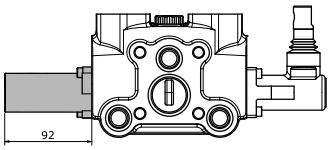
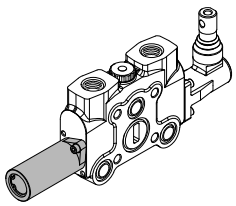
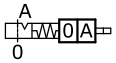
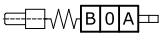
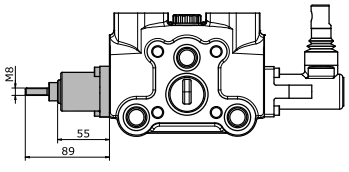
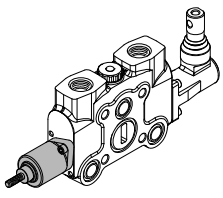


Spool return action classification - Springs load values

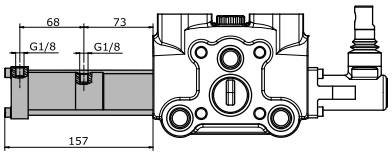
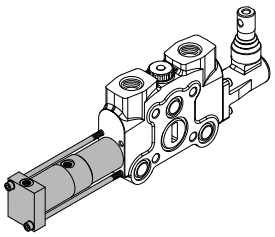
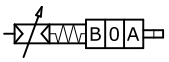
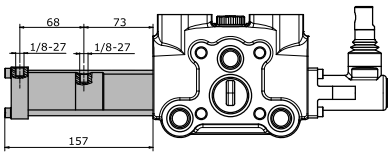
Spool return kits have three different sprong types; following the codes depending on spring loads.

Spring type			
Code	**A** (standard spring)	**B** (soft spring)	**C** (heavy spring)
Preloading	137.3 N	98.1 N	196.2 N
End of stroke	176.6 N	137.3 N	255 N
Spool return action identification example			
Code	**F001A**	**F001B**	**F001C**



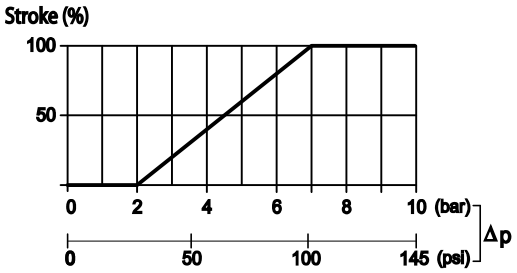
code	description	schema	dimensions	configuration
F001A **F001B** **F001C**	3 positions spring-centred spool			
F002A	3 positions spring-centred spool detent in A and B			
F003A	3 positions spring-centred spool detent in A			
F004A	3 positions spring-centred spool detent in B			
F005A	4 positions spring-centred spool detent in 4th position (only for W012 spool)			
F009A	2 positions in A spring-centred spool			
F010A	2 positions in B spring-centred spool			
F011A	2 positions detent in A spring-centred spool			
F012A	2 positions detent in B spring-centred spool			
F013A **F013B** **F013C**	3 positions spring-centred spool prearrangement dual command			

Pneumatic control classification

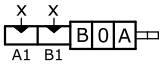
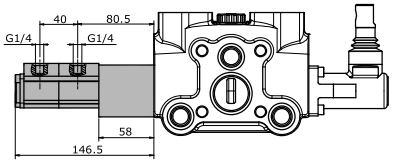
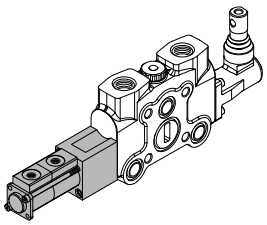
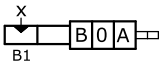
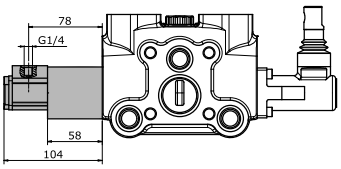
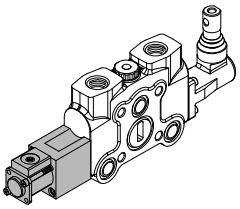
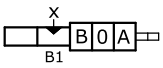
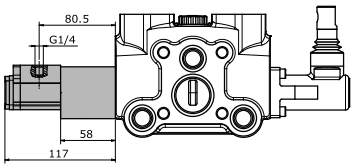
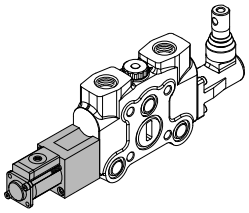
code	description	schema	dimensions	configuration
F020A	Pneumatic control ON - OFF			
F021A	Pneumatic control ON - OFF rotated 180°			
F022A	Proportional Pneumatic control		Proportional control with port BSP: G 1/8	
F023A	Proportional Pneumatic control rotated 180°			
F135A	Pneumatic control ON - OFF			
F136A	Pneumatic control ON - OFF rotated 180°			
F126A	Proportional Pneumatic control		Proportional control with port NPTF: 1/8-27	
F127A	Proportional Pneumatic control rotated 180°			

Proportional pneumatic control curve

The diagram shows the spool stroke as a function of the pneumatic pressure operating.



Load limit classification

code	description	schema	dimensions	configuration
F024A **F024C**	Load limit in A and B			
F025A **F025C**	Load limit in A and B rotated 180°			
F026A **F026C**	Load limit in A			
F027A **F027C**	Load limit in A rotated 180°			
F028A **F028C**	Load limit in B			
F029A **F029C**	Load limit in B rotated 180°			

NOTE: on request is available the load limit with dual control; for more informations please contact our Commercial Dept.