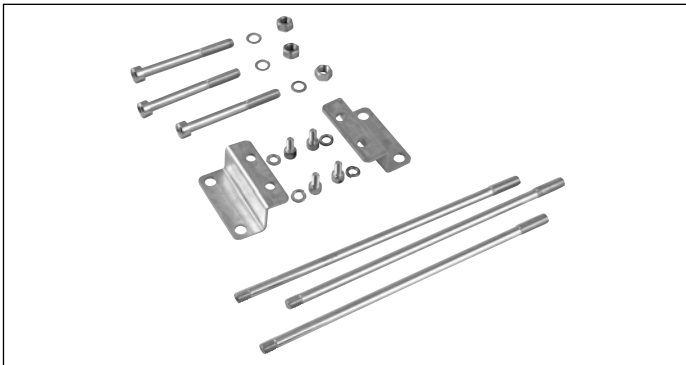


Accessories and fixation elements

RE 18301-90

Edition: 05.2016

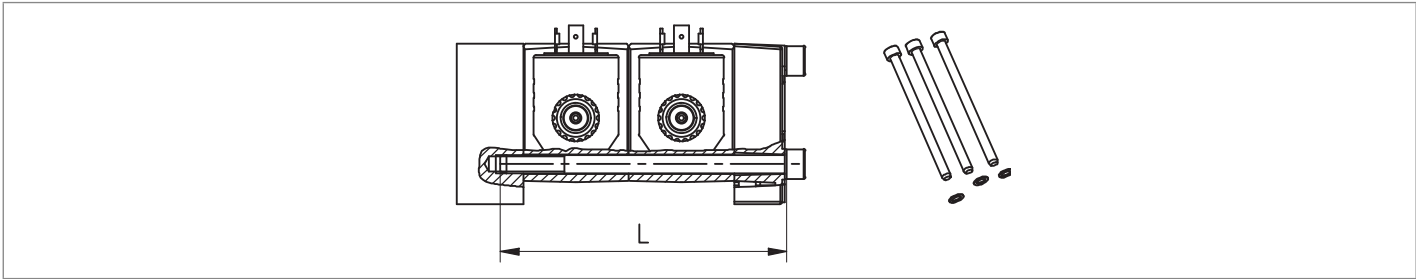
Replaces: 07.2012



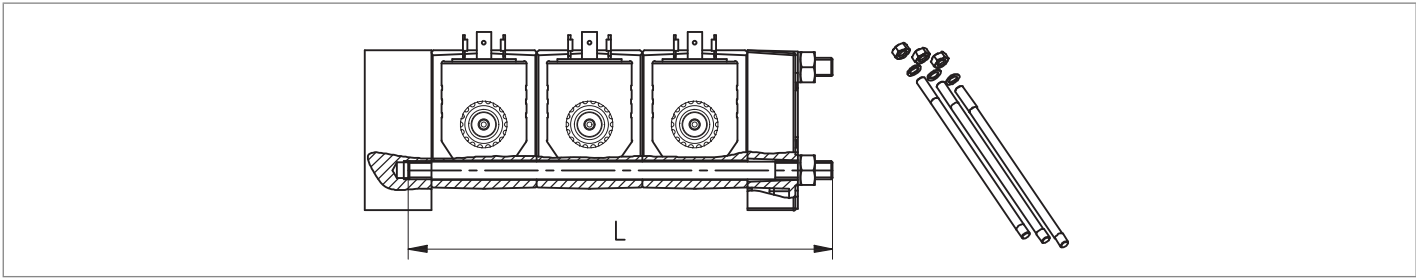
Contents

Assembly of directional elements	2
Fitting of mounting brackets	3
Assembling of flangeable element	3
Kit for spacers between elements	4
Flow restrictor	4
Series circuits	5
Hydraulic Symbol with intermediate element between A and B lines	5

Assembly of directional elements



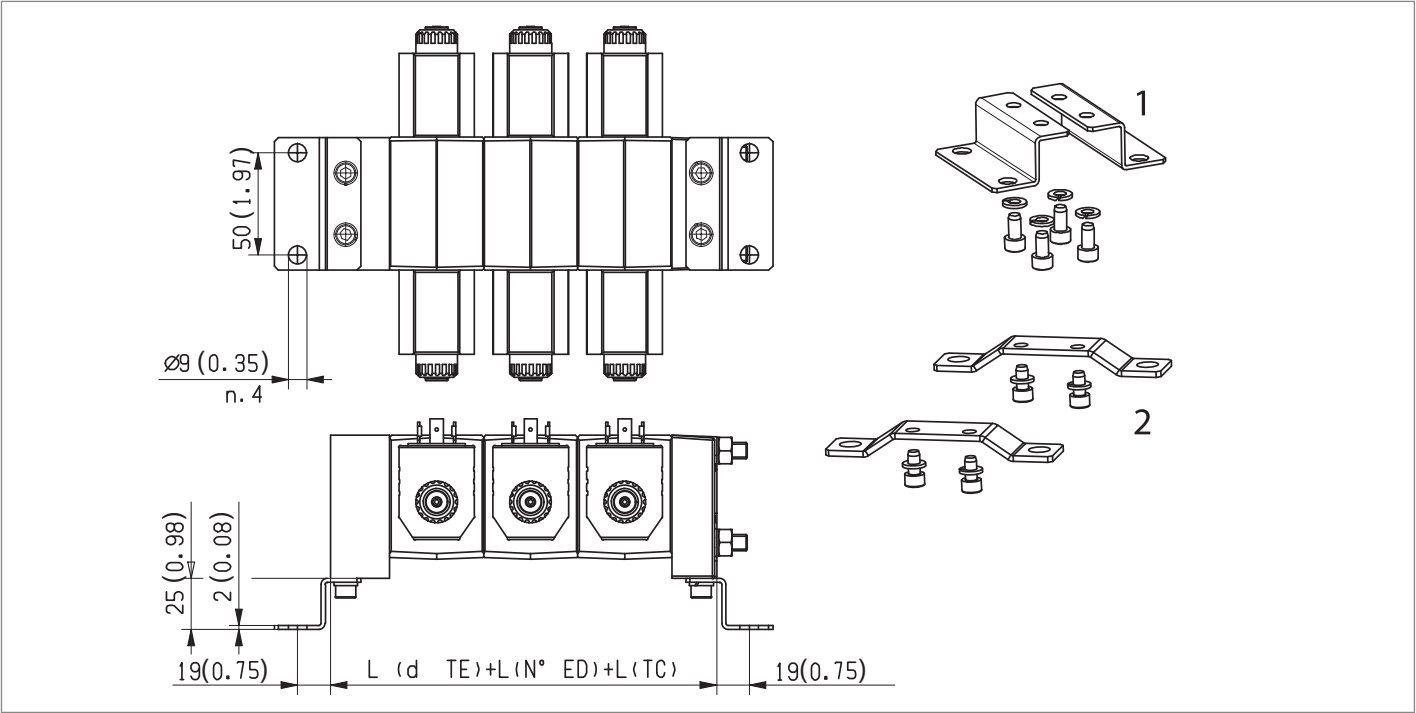
For 1 or 2 elements,
the assembly kit is composed by 3 screws and 3 washers



For 3 or more elements,
the assembly kit is composed by 3 tie-rods, 3 washers and 3 nuts

Total flangeable elements	Screw or tie-rod length L mm (inch)	Tightening torque for tie rod on entry plate Nm (ft-lb)	Tightening torque for locking nut (opt.) Nm (ft-lb)	Tightening torque for screws or nuts Nm (ft-lb)	Reference code	Type	Material Number
1	80 (3.150)	N/A	N/A	17-18 (12,5-13,3)	K-2201	Screw	R933003721
2	125 (4.921)	N/A	N/A	17-18 (12,5-13,3)	K-2202	Screw	R933003722
3	185 (7.283)	17-23 (12,5-17)	5-6 (3,7-4,4)	17-18 (12,5-13,3)	K-2203	Tie-rod	R933003723
4	230 (9.055)	17-23 (12,5-17)	5-6 (3,7-4,4)	17-18 (12,5-13,3)	K-2204	Tie-rod	R933003724
5	275 (10.827)	17-23 (12,5-17)	5-6 (3,7-4,4)	17-18 (12,5-13,3)	K-2205	Tie-rod	R933003725
6	320 (12.598)	17-23 (12,5-17)	5-6 (3,7-4,4)	17-18 (12,5-13,3)	K-2206	Tie-rod	R933003726
7	365 (14.370)	17-23 (12,5-17)	5-6 (3,7-4,4)	17-18 (12,5-13,3)	K-2207	Tie-rod	R933003727
8	416 (16.378)	17-23 (12,5-17)	5-6 (3,7-4,4)	17-18 (12,5-13,3)	K-2208	Tie-rod	R933003728
9	460 (18.110)	17-23 (12,5-17)	5-6 (3,7-4,4)	17-18 (12,5-13,3)	K-2209	Tie-rod	R933003729
10	510 (20.079)	17-23 (12,5-17)	5-6 (3,7-4,4)	17-18 (12,5-13,3)	K-2210	Tie-rod	R933000000

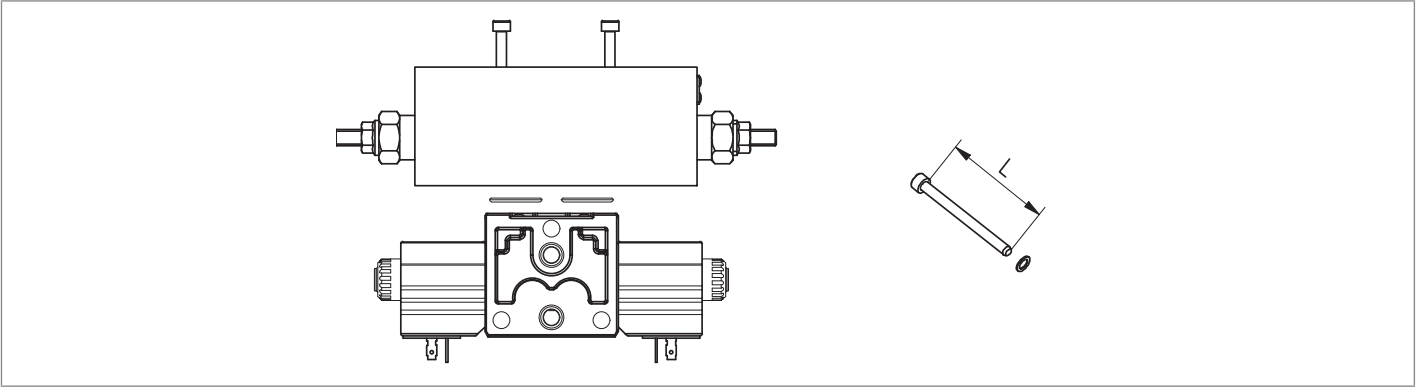
Fitting of mounting brackets



The kit is composed by 2 brackets, 4 screws and 4 washers.

Nr.	Type	Tightening torque Nm (ft-lb)	Material Number
1	K-2215	9-10 (6.64-7.37)	R933003730
2	K-2216	9-10 (6.64-7.37)	R933007089

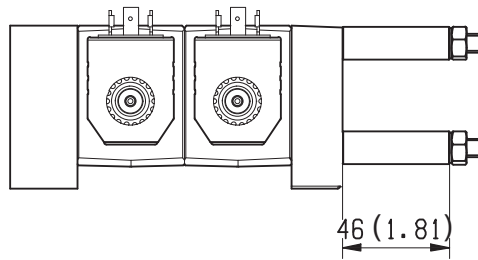
Assembling of flangeable element



The assembly kit is composed by 4 screws and 4 washers.

Total flangeable elements	Screw or tie-rod length L mm (inch)	Tightening torque Nm (ft-lb)	Reference code	Material Number
1	60 (2.326)	5-6 (3.69-4.42)	K-2221	R933003731
2	120 (4.724)	5-6 (3.69-4.42)	K-2222	R933003732
3	175 (6.890)	5-6 (3.69-4.42)	K-2223	R933003733

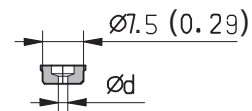
Kit for spacers between elements



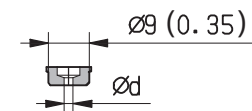
The spacers (code 44-00257012) are fitted in order to install longer tie-rods for future insertion of an extra directional element.

Flow restrictor

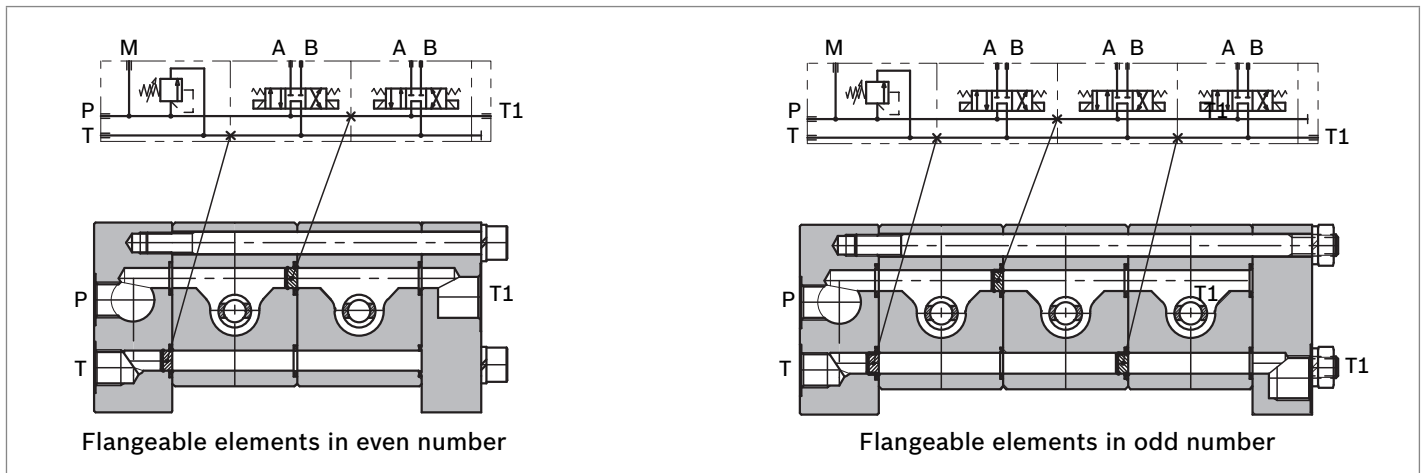
Material description	Orifice I.D. mm (inch)	Material Number
50-04999	Closed	R933002917
50-05003	0,3 (0.012)	R933002922
50-05004	0,4 (0.016)	R933003398
50-05001	0,5 (0.020)	R933002920
50-05000	0,6 (0.024)	R933002919
50-05002	0,7 (0.028)	R933002921
50-0500	0,8 (0.031)	R933002918
50-05008	0,9 (0.035)	R933002923
50-0501	1,0 (0.039)	R933002924
50-05015	1,1 (0.043)	R933002925
50-0502	1,2 (0.047)	R933002926
50-05022	1,35 (0.053)	R933002927
50-0503	1,5 (0.059)	R933002928
50-05032	1,6 (0.063)	R933002930
50-05031	1,7 (0.067)	R933002929
50-0504	2,0 (0.079)	R933002931
50-0505	2,2 (0.087)	R933002933
50-05045	2,5 (0.098)	R933002932
50-0506	3,0 (0.118)	R933002934
50-0508	3,2 (0.126)	R933002935
50-0510	4,0 (0.157)	R933007391
50-0515	5,0 (0.197)	R933008462



Material description	Orifice I.D. mm (inch)	Material Number
50-07000	Closed	R933002936
50-07020	0,8 (0.031)	R933002937
50-07021	1,0 (0.039)	R933007090
50-07022	1,1 (0.043)	R933007930
50-07023	1,2 (0.047)	R933007633
50-07024	1,4 (0.055)	R933007704
50-07030	1,6 (0.063)	R933002938
50-07031	1,7 (0.067)	R933007091
50-07040	2,0 (0.079)	R933002939
50-07043	2,25 (0.089)	R933009044
50-07045	2,5 (0.098)	R933007477
50-07047	2,75 (0.108)	R933002940
50-07050	3,0 (0.118)	R933002941
50-07056	3,5 (0.138)	R933009575
50-07057	3,75 (0.148)	R933007703
50-07060	4,0 (0.157)	R933007631
50-07070	5,5 (0.217)	R933007567



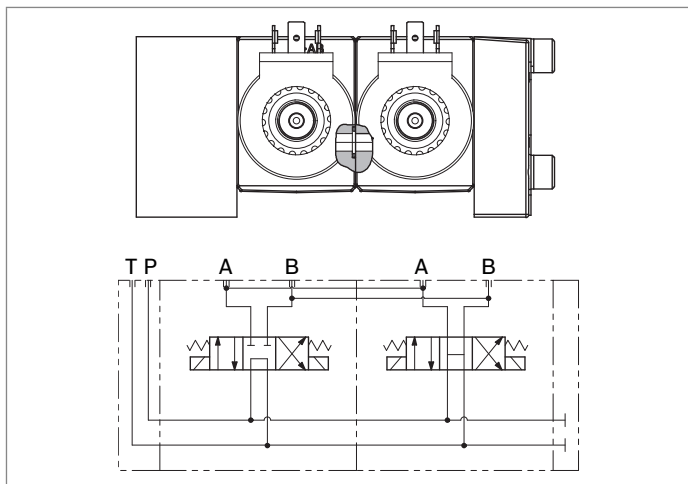
Series circuits



To have information about the pressure drops on elements, see the (DELTA P-Q) curves of P>T of A201 circuit of ED1 (RE 18301-01) or ED2 (RE 18301-02) modular elements.

Hydraulic Symbol with intermediate element between A and B lines

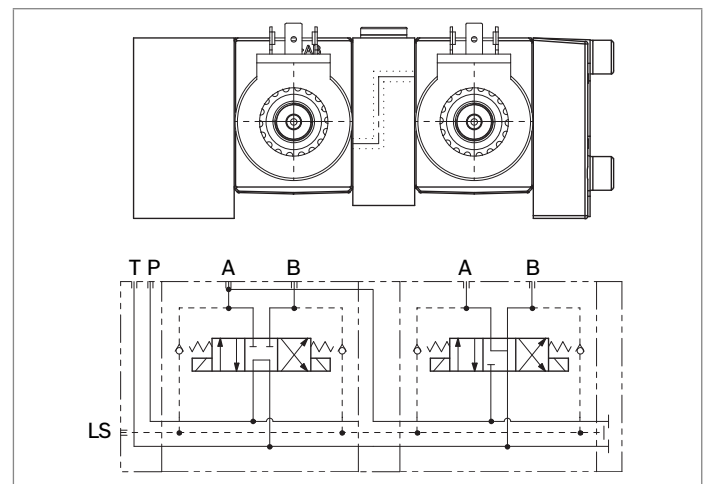
Flangeable elements with A and B ports in one side



scheme 1

Also available flangeable elements with A and B ports in one side, oriented either toward the inlet (TE) side, or toward the outlet (TC) side (see Hydraulic symbol 1).

Flangeable elements with A and B ports in one side, and with an intermediate body for connection of A and P



scheme 2

For flangeable elements with A and B ports in one side there is also a flangeable body to connect the A port of one element to the P port of the following element (see Hydraulic symbol 2).

Bosch Rexroth Oil Control S.p.A.

Oleodinamica LC Division
Via Artigianale Sedrio, 12
42030 Vezzano sul Crostolo
Reggio Emilia - Italy
Tel. +39 0522 601 801
Fax +39 0522 606 226 / 601 802
compact-hydraulics-cdv@boschrexroth.com
www.boschrexroth.com/compacthydraulics

© This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth Oil Control S.p.a.. It may not be reproduced or given to third parties without its consent. The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.
Subject to change.