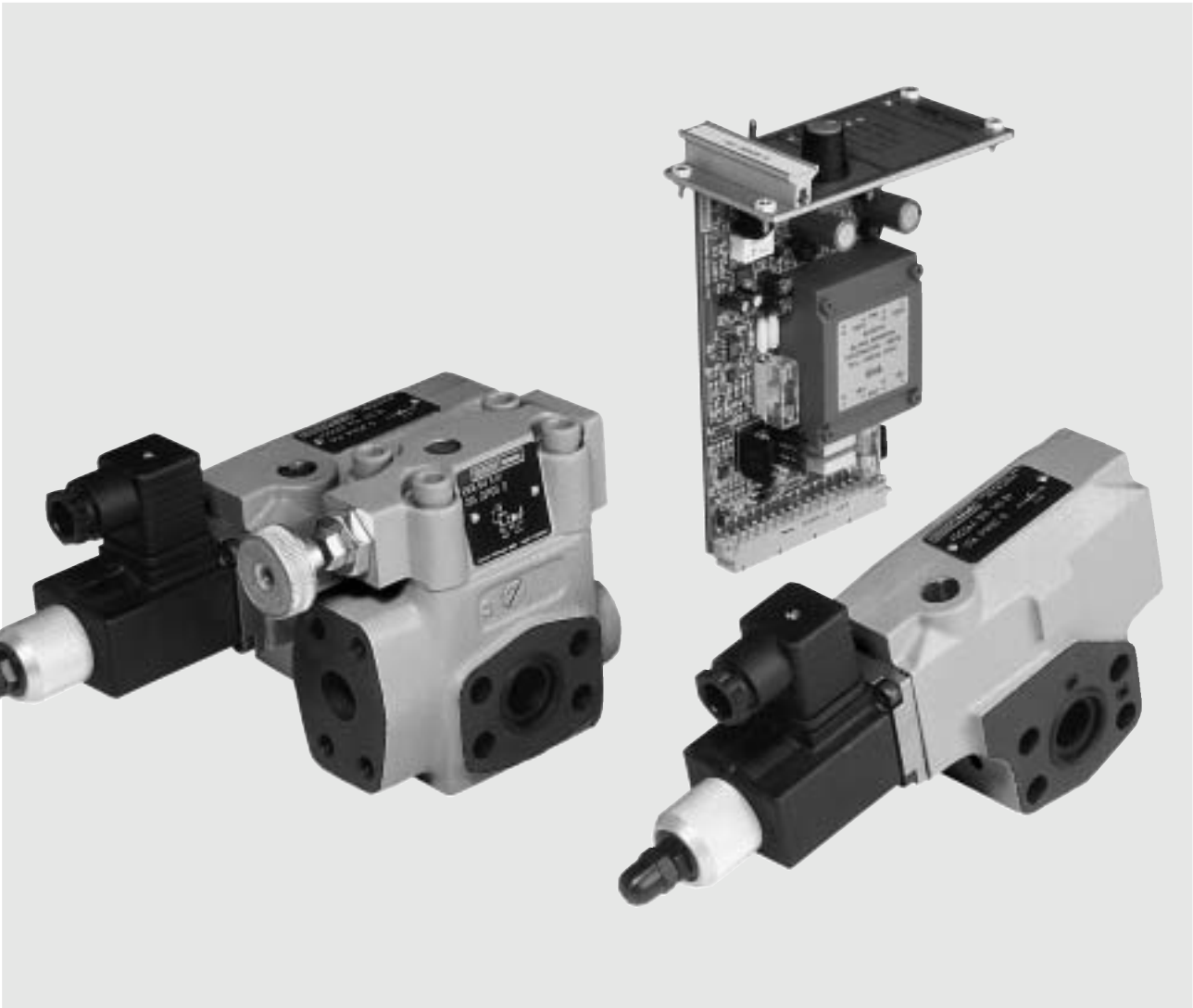




DENISON HYDRAULICS

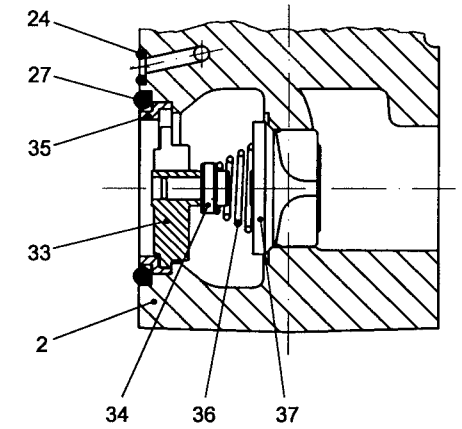
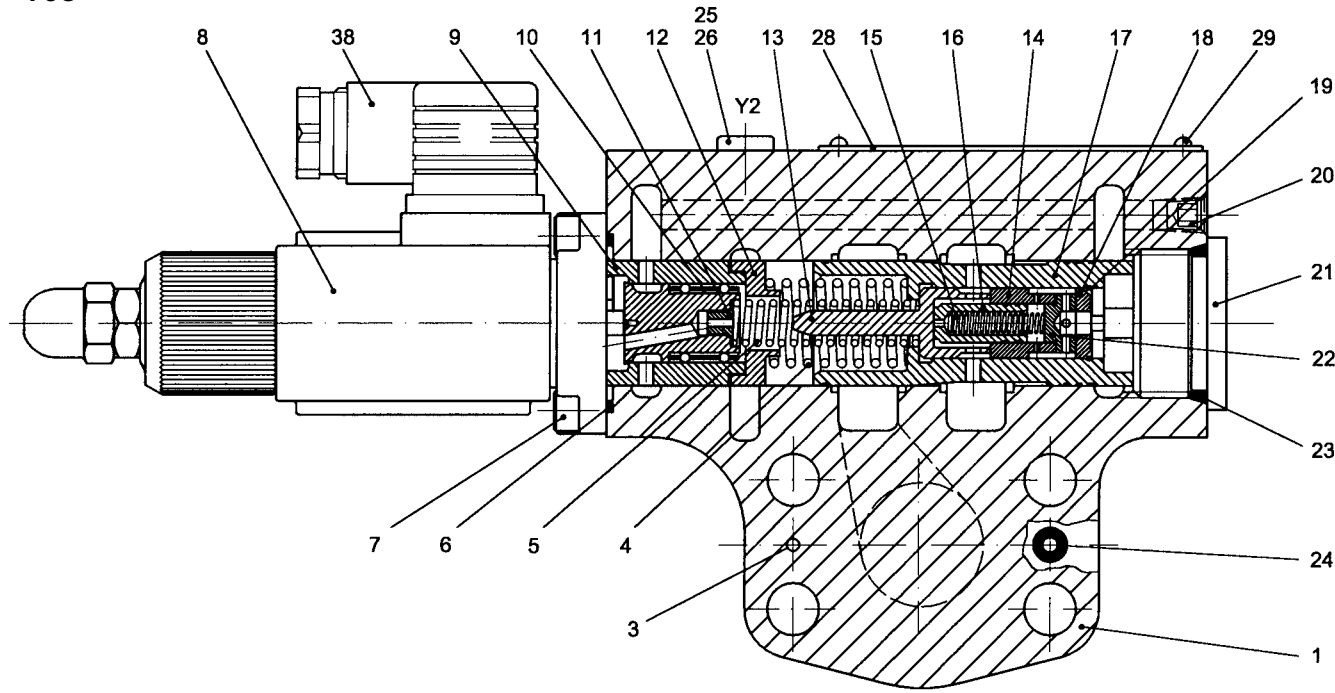
Proportional Throttle Valve Series F5C and Compensators Series R5A, R5P



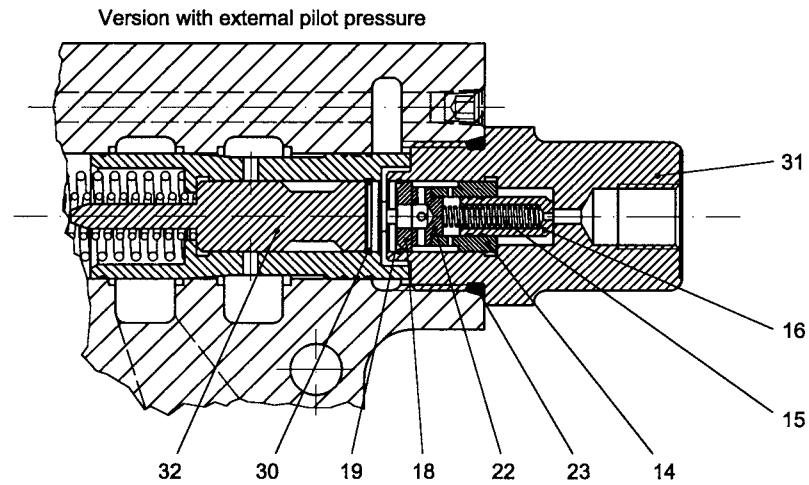
Publ. S5-ML 4200-A, replaces S5-ML420-B

DENISON | **Hydraulics**

F5C



Version with integral check valve (max. 210 bar)



Version with external pilot pressure

Item Pos. Réf.	English	Deutsch	Français	Italiano	Español	Part No. Teil - Nr. Code No. Cod. No. Código	Qty. Stck. Qté. Qtà. Ctd.		
							F5C		
							06	08	10
1	Body (Y2=G1/4")	Gehäuse (Y2=G1/4")	Corps (Y2=G1/4")	Corpo (Y2=G1/4")	Cuerpo (Y2=G1/4")	036-80084-0	1	-	-
						036-80086-0	-	1	-
						036-80088-0	-	-	1
	Body (Y2=SAE-4)	Gehäuse (Y2=SAE-4)	Corps (Y2=SAE-4)	Corpo (Y2=SAE-4)	Cuerpo (Y2=SAE-4)	036-80085-0	1	-	-
						036-80087-0	-	1	-
036-80089-0						-	-	1	
2	Body (Y2=G1/4")	Gehäuse (Y2=G1/4")	Corps (Y2=G1/4")	Corpo (Y2=G1/4")	Cuerpo (Y2=G1/4")	036-80095-0	1	-	-
						036-80097-0	-	1	-
						036-80099-0	-	-	1
	Body (Y2=SAE-4)	Gehäuse (Y2=SAE-4)	Corps (Y2=SAE-4)	Corpo (Y2=SAE-4)	Cuerpo (Y2=SAE-4)	036-80096-0	1	-	-
						036-80098-0	-	1	-
036-80100-0						-	-	1	
3	Plug M3 x 6	Stopfen	Bouchon	Tappo	Tapón	311-60012-2	1	1	1
4	Spring	Feder	Ressort	Molla	Muelle	036-36439-0	1	1	1
5	Spring	Feder	Ressort	Molla	Muelle	036-36438-0	1	1	1
6	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	671-00027-0	1	1	1
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	674-00027-0	1	1	1
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	675-00027-0	1	1	1
7	Screw M5 x 12	Schraube	Vis	Vite	Tornillo Allen	361-07126-2	4	4	4
8	Solenoid	Magnet	Solénoïde	Solenoid	Solenoid	120-12001-2	1	1	1
9	Sleeve and spool	Hülse und Kolben	Chemise et tiroir	Camicia e cursore	Camisa y corredera	S16-86054-0	1	1	1
10	Bearing	Lager	Roulement	Cuscinetto	Cojinete	036-36443-0	1	1	1
11	Orifice plug 1.5 (F5C..Std. + F5C..A)	Drosselstopfen Ø 1,5 (F5C..Std. + F5C..A)	Vis diaphragme 1,5 (F5C..Std. + F5C..A)	Tappo forato 1,5 (F5C..Std. + F5C..A)	Tapón calibrado 1,5 (F5C..Std. + F5C..A)	036-36548-0	1	1	1
	Orifice plug 1.8 (F5C..B)	Drosselstopfen Ø 1,8 (F5C..B)	Vis diaphragme 1,8 (F5C..B)	Tappo forato 1,8 (F5C..B)	Tapón calibrado 1,8 (F5C..B)	036-36550-0	1	1	1
12	Guide	Führung	Guide	Guida	Guia	036-36518-0	1	1	1
13	Spacer	Zwischenstück	Entretoise	Distanziale	Parte intermedia	036-36436-0	1	1	1
14	Sleeve	Hülse	Chemise	Camicia	Camisa	036-16226-0	1	1	1
15	Spring	Feder	Ressort	Molla	Muelle	036-22002-0	1	1	1
16	Piston (F5C..Std.)	Kolben (F5C..Std.)	Tiroir (F5C..Std.)	Pistone (F5C..Std.)	Pistón (F5C..Std.)	036-16227-0	1	1	1
	Piston (F5C..A+B)	Kolben (F5C..A+B)	Tiroir (F5C..A+B)	Pistone (F5C..A+B)	Pistón (F5C..A+B)	036-36507-0	1	1	1
17	Spool type A	Kolben Typ A	Tiroir type A	Pistone tipo A	Corredera tipo A	036-36581-0	1	-	-
	Spool type B	Kolben Typ B	Tiroir type B	Pistone tipo B	Corredera tipo B	036-36582-0	1	1	-
	Spool type 1	Kolben Typ 1	Tiroir type 1	Pistone tipo 1	Corredera tipo 1	036-36433-0	1	1	1
	Spool type 2	Kolben Typ 2	Tiroir type 2	Pistone tipo 2	Corredera tipo 2	036-36434-0	-	1	1
	Spool type 3	Kolben Typ 3	Tiroir type 3	Pistone tipo 3	Corredera tipo 3	036-36435-0	-	-	1

Item Pos. Réf.	English	Deutsch	Français	Italiano	Español	Part No. Teil - Nr. Code No. Cod. No. Código	Qty. Stck. Qté. Qtà. Ctd.			
							F5C			
							06	08	10	
18	Washer	Scheibe	Rondelle	Rondella	Arandela	036-84450-0	1	1	1	
19	Circlip	Sicherungsring	Anneau élastique	Anello elastico	Circlip	356-00033-8	1	1	1	
20	Plug 1/16" NPTF	Stopfen 1/16" NPTF	Bouchon 1/16" NPTF	Tappo 1/16" NPTF	Tapón 1/16" NPTF	431-90104-0	3	3	3	
21	Plug	Verschlußschraube	Bouchon	Tappo	Tapón	488-35050-0	1	1	1	
22	Plug	Stopfen	Bouchon	Tappo	Tapón	036-16225-0	1	1	1	
23	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	671-00914-0	1	1	1	
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	674-00914-0	1	1	1	
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	675-00914-0	1	1	1	
24	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00007-0	2	2	2	
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00007-0	2	2	2	
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00007-0	2	2	2	
25	Plug G1/4"	Stopfen G1/4"	Bouchon G1/4"	Tappo G1/4"	Tapón G1/4"	036-84618-0	1	1	1	
	Plug SAE-4	Stopfen SAE-4	Bouchon SAE-4	Tappo SAE-4	Tapón SAE-4	488-35013-0	1	1	1	
26	O-Ring for plug G1/4":	Runddichtring für Stopfen G1/4":	Joint torique pour bouchon G1/4":	O-Ring per tappo G1/4":	Tórica para Tapón G1/4":					
	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00016-0	1	1	1	
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00016-0	1	1	1	
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00016-0	1	1	1	
	O-Ring for plug SAE-4:	Runddichtring für Stopfen SAE-4:	Joint torique pour bouchon SAE-4:	O-Ring per tappo SAE-4:	Tórica para Tapón SAE-4:					
	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00904-0	1	1	1	
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00904-0	1	1	1	
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00904-0	1	1	1	
	27	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00214-0	1	-	-
		O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00214-0	1	-	-
O-Ring FPM (S5)		Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00214-0	1	-	-	
O-Ring NBR (S1)		Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00219-0	-	1	-	
O-Ring EPDM (S4)		Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00219-0	-	1	-	
O-Ring FPM (S5)		Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00219-0	-	1	-	
O-Ring NBR (S1)		Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00222-0	-	-	1	
O-Ring EPDM (S4)		Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00222-0	-	-	1	
O-Ring FPM (S5)		Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00222-0	-	-	1	
28	Name plate	Typenschild	Plaque d'identification	Targhetta di identificazione	Placa Nomenclatura	036-84775-0	1	1	1	
29	Rivet	Kerbnagel	Rivet	Rivetto	Remache	320-10203-0	2	2	2	
30	Circlip	Sicherungsring	Anneau élastique	Anello elastico	Circlip	356-30056-0	1	1	1	
31	Adaptor G1/4"	Anschlußstück G1/4"	Adapteur G1/4"	Adattatore G1/4"	Adaptador G1/4"	036-80090-0	1	1	1	
	Adaptor SAE-4	Anschlußstück SAE-4	Adapteur SAE-4	Adattatore SAE-4	Adaptador SAE-4	036-80091-0	1	1	1	
32	Spacer	Zwischenstück	Entretoise	Distanziale	Distanciador	036-36452-0	1	1	1	

Item Pos. Réf.	English	Deutsch	Français	Italiano	Español	Part No. Teil - Nr. Code No. Cod. No. Código	Qty. Stck. Qté. Qtà. Ctd.		
							F5C		
							06	08	10
33	Spider	Tragkreuz	Croisillon	Sostegno a croce	Soporte	036-36616-0	1	-	-
						036-36636-0	-	1	-
						036-36633-0	-	-	1
34	Spring guide	Federführung	Coupelle de ressort	Guida molla	Guia del Muelle	036-36658-0	1	-	-
						036-36659-0	-	1	-
						036-36660-0	-	-	1
35	Retaining ring	Haltering	Bague de retenue	Anello di ritenuta	Anillo Retenedor	036-36540-0	1	-	-
						036-36541-0	-	1	-
						036-36542-0	-	-	1
36	Spring	Feder	Ressort	Molla	Muelle	036-43932-0	1	1	1
37	Poppet	Kegel	Clapet	Pistone	Pistón	036-36618-0	1	-	-
						036-36637-0	-	1	-
						036-36634-0	-	-	1
38	Plug-in connector "B" (black)	Gerätesteckdose "B" (schwarz)	Prise embrochable "B" (noire)	Connettore "B" (nero)	Conector "B" (negro)	167-01008-8	1	1	1
	Repair Kits	Austausch-Baugruppen	Pochettes de réparation	Kit di riparazione	Juegos de reparación				
	Spool assy., int. pilot (F5C..Std.)	Kolbenbaugruppe, interne Steuerölauführung (F5C..Std.)	Ensemble tiroir, pilote interne (F5C..Std.)	Assieme pistone, pil. int. (F5C..Std.)	Conjunto corredera, pilotaje interno (F5C..Std.)				
	Spool type A	Kolben Typ A	Tiroir type A	Pistone tipo A	Corredera tipo A	S26-52956-0	1	-	-
	Spool type B	Kolben Typ B	Tiroir type B	Pistone tipo B	Corredera tipo B	S26-53597-0	1	1	-
	Spool type 1	Kolben Typ 1	Tiroir type 1	Pistone tipo 1	Corredera tipo 1	S16-91560-0	1	1	1
	Spool type 2	Kolben Typ 2	Tiroir type 2	Pistone tipo 2	Corredera tipo 2	S16-91561-0	-	1	1
	Spool type 3	Kolben Typ 3	Tiroir type 3	Pistone tipo 3	Corredera tipo 3	S16-91562-0	-	-	1
	Spool assy., int. pilot (F5C..A+B)	Kolbenbaugruppe, interne Steuerölauführung (F5C..A+B)	Ensemble tiroir, pilote interne (F5C..A+B)	Assieme pistone, pil. int. (F5C..A+B)	Conjunto corredera, pilotaje interno (F5C..A+B)				
	Spool type A	Kolben Typ A	Tiroir type A	Pistone tipo A	Corredera tipo A	S16-91755-0	1	-	-
	Spool type B	Kolben Typ B	Tiroir type B	Pistone tipo B	Corredera tipo B	S16-91756-0	1	1	-
	Spool type 1	Kolben Typ 1	Tiroir type 1	Pistone tipo 1	Corredera tipo 1	S16-91563-0	1	1	1
	Spool type 2	Kolben Typ 2	Tiroir type 2	Pistone tipo 2	Corredera tipo 2	S16-91564-0	-	1	1
	Spool type 3	Kolben Typ 3	Tiroir type 3	Pistone tipo 3	Corredera tipo 3	S16-91565-0	-	-	1

Item Pos. Réf.	<i>English</i>	<i>Deutsch</i>	<i>Français</i>	<i>Italiano</i>	<i>Español</i>	Part No. Teil - Nr. Code No. Cod. No. Código	Qty. Stck. Qté. Qtá. Ctd.			
							06	08	10	
							F5C			
	Repair Kits	Austausch-Baugruppen	Pochettes de réparation	Kit di riparazione	Juegos de reparación					
	Adaptor assy., ext. pilot	Anschlußstück-Baugruppe, ext. Steuerölauführung	Ensemble adaptateur, pilote externe	Assieme adattatore, pil. est.	Casquillo adaptador, pilotaje externo					
	F5C..Std.	F5C..Std.	F5C..Std.	F5C..Std.	F5C..Std.	S16-91566-0	1	1	1	
	F5C..A+B	F5C..A+B	F5C..A+B	F5C..A+B	F5C..A+B	S16-91567-0	1	1	1	
	Spool assy. ext. pilot	Kolben-Baugruppe ext. Steuerölauführung	Ensemble tiroir pilote externe	Assieme pistone, pil. est.	Conjunto corredera, pilotaje externo					
	Spool type 1	Kolben Typ 1	Tiroir type 1	Pistone tipo 1	Corredera tipo 1	S16-91568-0	1	1	1	
	Spool type 2	Kolben Typ 2	Tiroir type 2	Pistone tipo 2	Corredera tipo 2	S16-91569-0	-	1	1	
	Spool type 3	Kolben Typ 3	Tiroir type 3	Pistone tipo 3	Corredera tipo 3	S16-91570-0	-	-	1	
	Seal Kits	Dichtringsätze	Pochettes de joints	Serie guarnizioni	Juegos de Juntas					
	Seals (NBR-S1)	Dichtringe (NBR-S1)	Joints (NBR-S1)	Guarnizioni (NBR-S1)	Juntas (NBR-S1)	S16-95034-0	1	-	-	
						S16-95037-0	-	1	-	
						S16-95038-0	-	-	1	
	Seals (EPDM-S4)	Dichtringe (EPDM-S4)	Joints (EPDM-S4)	Guarnizioni (EPDM-S4)	Juntas (EPDM-S4)	S16-95034-4	1	-	-	
						S16-95037-4	-	1	-	
						S16-95038-4	-	-	1	
	Seals (FPM-S5)	Dichtringe (FPM-S5)	Joints (FPM-S5)	Guarnizioni (FPM-S5)	Juntas (FPM-S5)	S16-95034-5	1	-	-	
						S16-95037-5	-	1	-	
						S16-95038-5	-	-	1	

MODEL CODE FOR F5C – PROPORTIONAL THROTTLE VALVE

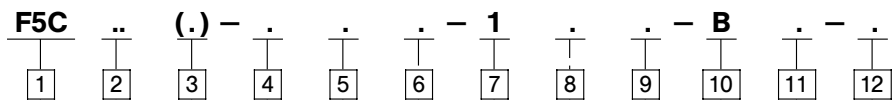
Note:

F5C = Proportional Throttle Valve (without compensator)

F5C + R5A Compensator = 2-Port Proportional Flow Control Valve

F5C + R5P Compensator = 3-Port Proportional Flow Control Valve

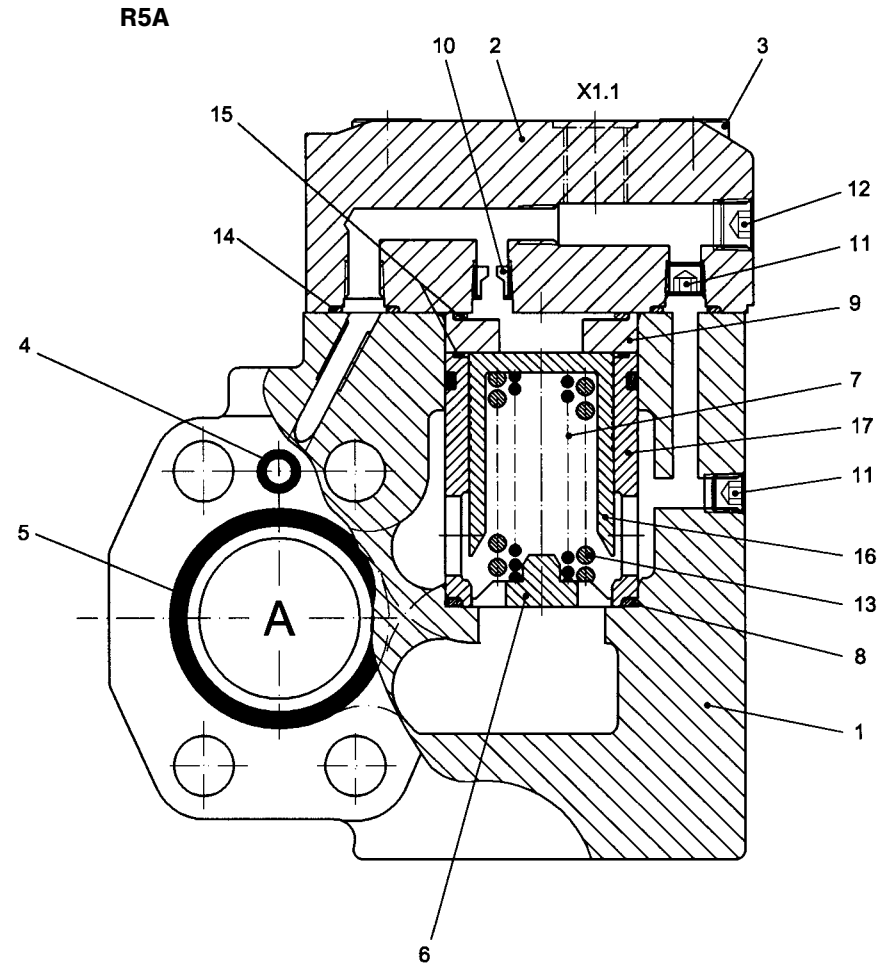
Model Number:



- 1 **Series** _____
F5C = Proportional Throttle Valve
- 2 **Size** _____
06 = 3/4" (95 l/min)
08 = 1" (190 l/min)
10 = 1 1/4" (380 l/min)
- 3 **Pilot Flow & Response** _____
A = } see table below
B = }
- 4 **Max. Pressure** _____
3 = 210 bar (with internal check valve only)
4 = 270 bar (without internal check valve)
- 5 **Body** _____
3 = X3, Y2 ports = G 1/4"
4 = X3, Y2 ports = SAE-4 (7/16"-20 UNF)
- 6 **Spool** _____
A = 23 l/min (for size code 06)
B = 45 l/min (for size codes 06, 08)
1 = 95 l/min (for size codes 06, 08, 10)
2 = 190 l/min (for size codes 08, 10)
3 = 380 l/min (for size code 10)
- 7 **Adjusting Device** _____
1 = Proportional solenoid
- 8 **Pilot Connection** _____
2 = internal PD – internal PP
3 = external PD – external PP, (without plug in X1)
4 = external PD – external PP, (with plug in X1)
5 = external PD – internal PP, (without plug in X1)
6 = external PD – internal PP, (with plug in X1)
- 9 **Accessories** _____
0 = without
C = with internal check valve (max. 210 bar)
- 10 **Design Letter** _____
- 11 **Seal Class** _____
1 = NBR (Buna N) Standard
4 = EPDM
5 = FPM (Viton®)
- 12 **Modification** _____

Pilot Flow and Response Selection

Model Code	Input Current	Pilot Flow	Max. Response (typical)	Comments
F5C...(Std.)	D.C. + A.C. Dither	1 l/min	350 ms	Standard valve for low pilot flow loss not recommended for use without A.C. Dither
F5C...A	D.C. + A.C. Dither	2 l/min	250 ms	Recommended for best overall performance
F5C...B	D.C. + A.C. Dither	2 l/min	150 ms	Maximum spool response but with maximum spool overshoot

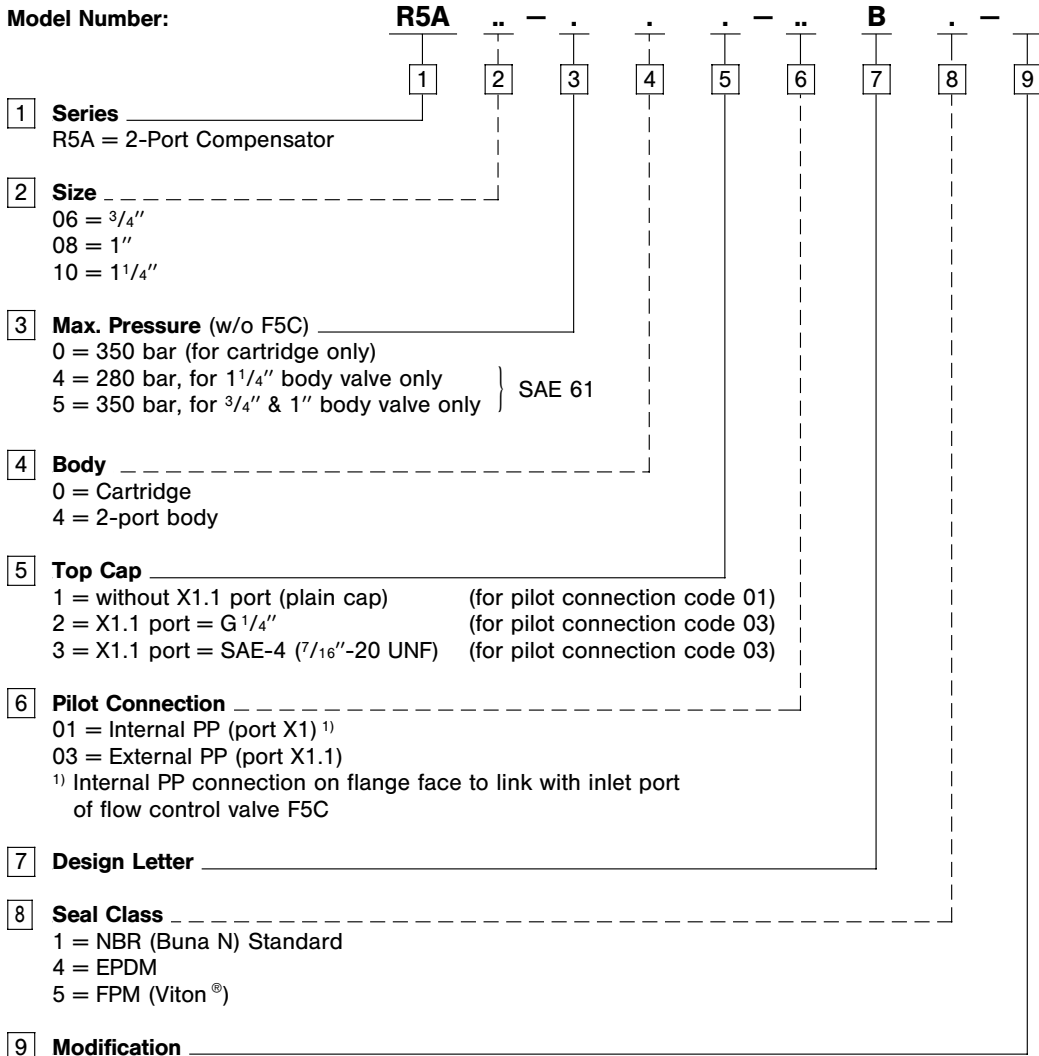


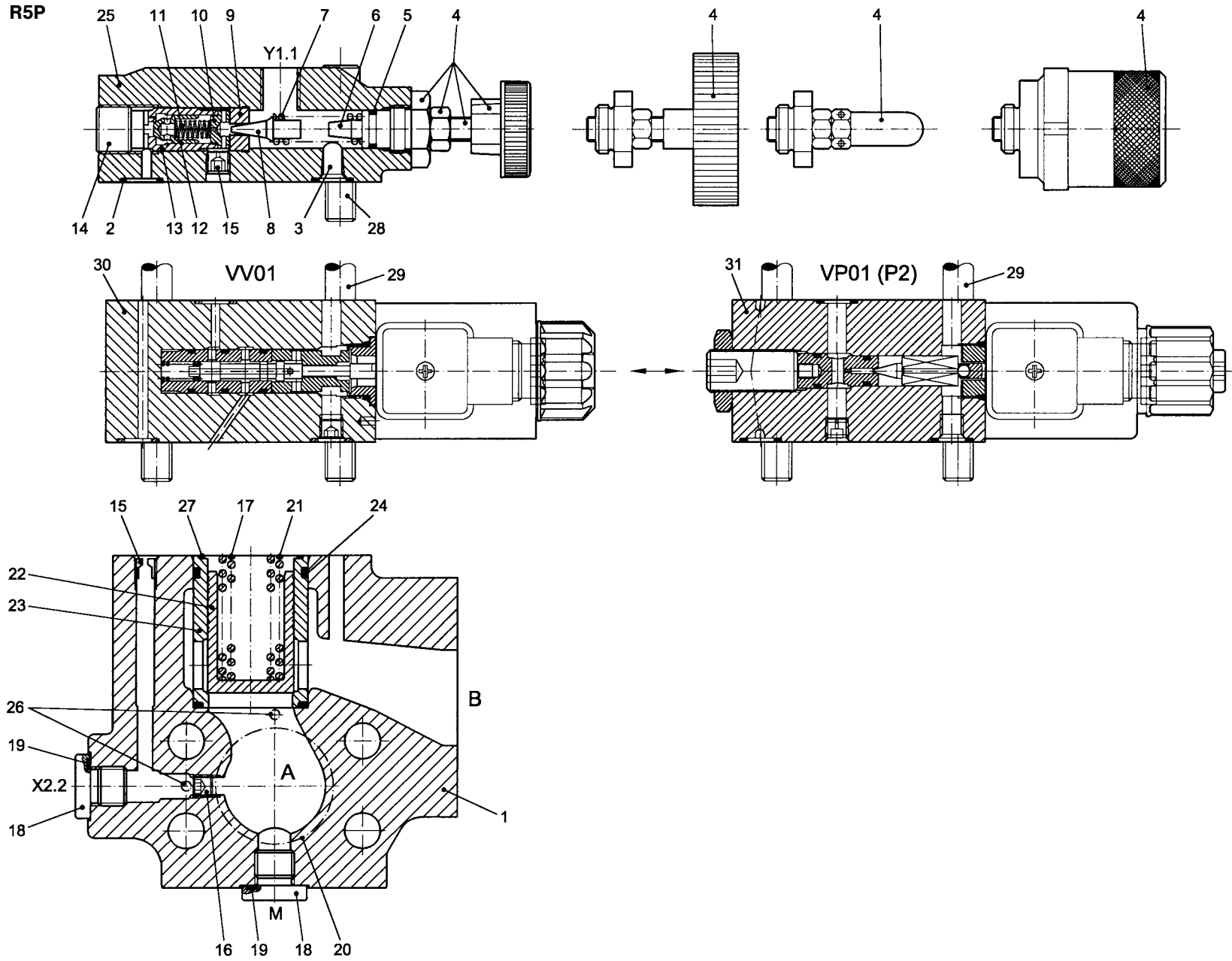
Item Pos. Réf.	English	Deutsch	Français	Italiano	Español	Part No. Teil - Nr. Code No. Cod. No. Código	Qty. Stck. Qté. Qtà. Ctd.		
							R5A		
							06	08	10
1	Body	Gehäuse	Corps	Corpo	Cuerpo	036-36558-0	1	-	-
						036-36559-0	-	1	-
						036-36560-0	-	-	1
2	Cap (without port X1.1)	Deckel (ohne Anschluß X1.1)	Couvercle (sans orifice X1.1)	Coperchio (senza conness. X1.1)	Tapa (sin boca X1.1)	036-86642-0	1	1	1
	Cap (X1.1=G1/4")	Deckel (X1.1=G1/4")	Couvercle (X1.1=G1/4")	Coperchio (X1.1=G1/4")	Tapa (X1.1=G1/4")	036-36535-0	1	1	1
	Cap (X1.1=SAE-4)	Deckel (X1.1=SAE-4)	Couvercle (X1.1=SAE-4)	Coperchio (X1.1=SAE-4)	Tapa (X1.1=SAE-4)	036-86526-0	1	1	1
3	Screw 3/8"-24UNF x 1.3/4"lg.	Schraube	Vis	Vite	Tornillo Allen	359-15220-0	4	4	4
4	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00007-0	1	1	1
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00007-0	1	1	1
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00007-0	1	1	1
5	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00214-0	1	-	-
						691-00219-0	-	1	-
						691-00222-0	-	-	1
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00214-0	1	-	-
						694-00219-0	-	1	-
						694-00222-0	-	-	1
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00214-0	1	-	-
						695-00219-0	-	1	-
						695-00222-0	-	-	1
6	Spring support	Federstütze	Support de ressort	Portamolla	Soporte Muelle	036-36290-0	1	-	-
						036-36291-0	-	1	1
7	Spring	Feder	Ressort	Molla	Muelle	036-36402-0	1	-	-
						036-36404-0	-	1	1
8	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00018-0	2	-	-
						691-00125-0	-	2	2
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00018-0	2	-	-
						694-00125-0	-	2	2
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00018-0	2	-	-
						695-00125-0	-	2	2
9	Spacer	Distanzstück	Entretoise	Distanziale	Espaciador	036-36561-0	1	-	-
						036-36562-0	-	-	1
10	Orifice plug	Drosselstopfen	Vis diaphragme	Tappo forato	Tapón calibrado	036-12819-0	1	1	1
11	Plug 1/16" NPTF	Stopfen 1/16" NPTF	Bouchon 1/16" NPTF	Tappo 1/16" NPTF	Tapón 1/16" NPTF	431-90104-0	2	2	2
12	Plug 1/8" NPTF	Stopfen 1/8" NPTF	Bouchon 1/8" NPTF	Tappo 1/8" NPTF	Tapón 1/8" NPTF	431-90204-0	1	1	1
13	Spring	Feder	Ressort	Molla	Muelle	036-36405-0	-	1	1

Item Pos. Réf.	<i>English</i>	<i>Deutsch</i>	<i>Français</i>	<i>Italiano</i>	<i>Español</i>	Part No. Teil - Nr. Code No. Cod. No. Código	Qty. Stck. Qté. Qtà. Ctd.		
							R5A		
							06	08	10
14	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00013-0	2	2	2
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00013-0	2	2	2
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00013-0	2	2	2
15	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00026-0	1	1	2
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00026-0	1	1	2
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00026-0	1	1	2
16	Spool	Kolben	Clapet	Pistone	Pistón	036-36288-0	1	-	-
						036-36293-0	-	1	1
17	Sleeve	Hülse	Chemise	Camicia	Camisa	036-36289-0	1	-	-
						036-36292-0	-	1	1
Seal Kits									
Dichtringsätze									
Pochettes de joints									
Serie guarnizioni									
Juegos de Juntas									
	Seals (NBR-S1)	Dichtringe (NBR-S1)	Joints (NBR-S1)	Guarnizioni (NBR-S1)	Juntas (NBR-S1)	S16-91458-0	1	-	-
						S16-91457-0	-	1	-
						S16-91456-0	-	-	1
	Seals (EPDM-S4)	Dichtringe (EPDM-S4)	Joints (EPDM-S4)	Guarnizioni (EPDM-S4)	Juntas (EPDM-S4)	S16-91458-4	1	-	-
						S16-91457-4	-	1	-
						S16-91456-4	-	-	1
	Seals (FPM-S5)	Dichtringe (FPM-S5)	Joints (FPM-S5)	Guarnizioni (FPM-S5)	Juntas (FPM-S5)	S16-91458-5	1	-	-
						S16-91457-5	-	1	-
						S16-91456-5	-	-	1

Note:

R5A + F5C = 2-Port Proportional Flow Control Valve





Item Pos. Réf.	English	Deutsch	Français	Italiano	Español	Part No. Teil - Nr. Code No. Cod. No. Código	Qty. Stck. Qté. Qtà. Ctd.		
							06	08	10
1	Body (X2.2+M=G1/4")	Gehäuse (X2.2+M=G1/4")	Corps (X2.2+M=G1/4")	Corpo (X2.2+M=G1/4")	Cuerpo (X2.2+M=G1/4")	036-84947-0	1	-	-
						036-84948-0	-	1	-
						036-84949-0	-	-	1
	Body (X2.2+M=SAE-4)	Gehäuse (X2.2+M=SAE-4)	Corps (X2.2+M=SAE-4)	Corpo (X2.2+M=SAE-4)	Cuerpo (X2.2+M=SAE-4)	036-86330-0	1	-	-
						036-86331-0	-	1	-
						036-86332-0	-	-	1
2	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00013-0	2	2	2
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00013-0	2	2	2
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00013-0	2	2	2
3	Plug 1/16" NPTF (at external drain)	Stopfen 1/16" NPTF (bei ext. Steuerölabführung)	Bouchon 1/16" NPTF (pour drain externe)	Tappo 1/16" NPTF (per drenaggio esterno)	Tapón 1/16" NPTF (con drenaje externo)	431-90104-0	1	1	1
4	Adjusting devices:	Verstellarten:	Dispositif de réglage:	Dispositivo di regolazione:	Dispositivos de ajuste:				
	Knob 32 mm dia.	Handrad 32 mm	Bouton moleté 32 mm	Manopola diam. 32 mm	Volante diá. 32 mm	S16-39147-0	1	1	1
	Knob 50 mm dia.	Handrad 50 mm	Bouton moleté 50 mm	Manopola diam. 50 mm	Volante diá. 50 mm	S16-39148-0	1	1	1
	Acorn nut with lead seal	Hutmutter plombierbar	Contre écrou	Vite e bussola di piombatura	Tapón con precinto	S16-39149-0	1	1	1
	Lock	Schloß	Réglage par verrouillage	Manopola con serratura	Volante con liave	S16-34509-0	1	1	1
5	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	671-00012-0	1	1	1
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	674-00012-0	1	1	1
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	675-00012-0	1	1	1
6	Piston	Kolben	Poussoir	Pistone	Pistón	036-21767-0	1	1	1
7	Spring 105 bar	Feder 105 bar	Ressort 105 bar	Molla 105 bar	Muelle 105 bar	036-13244-0	1	1	1
	Spring 210 bar	Feder 210 bar	Ressort 210 bar	Molla 210 bar	Muelle 210 bar	036-13245-0	1	1	1
	Spring 350 bar	Feder 350 bar	Ressort 350 bar	Molla 350 bar	Muelle 350 bar	036-12289-0	1	1	1
8	Cone	Kegel	Cône	Cono	Cono	036-12288-0	1	1	1
9	Seat	Sitz	Siège	Sede	Asiento	036-11692-0	1	1	1
10	Orifice plug	Drosselstück	Diaphragme	Parte con orificio	Parte con orificio	036-36282-0	1	1	1
11	Spring	Feder	Ressort	Molla	Muelle	036-36401-0	1	-	-
						036-36405-0	-	1	1
12	Spool	Kolben	Clapet	Pistone	Pistón	036-36281-0	1	1	1
13	Guide	Führung	Guide	Guida pistone	Guia del Pistón	036-36280-0	1	1	1
14	Plug	Stopfen	Bouchon	Tappo	Tapón	312-35051-0	1	1	1
15	Orifice plug	Drosselstopfen	Vis diaphragme	Tappo forato	Tapón calibrado	036-25528-0	2	2	2
16	Plug M5 x 6	Stopfen M5 x 6	Bouchon M5 x 6	Tappo M5 x 6	Tapón M5 x 6	311-60001-2	1	-	-
	Plug 1/16" NPTF	Stopfen 1/16" NPTF	Bouchon 1/16" NPTF	Tappo 1/16" NPTF	Tapón 1/16" NPTF	431-90104-0	-	1	1
17	Spring	Feder	Ressort	Molla	Muelle	036-36405-0	-	1	1

Item Pos. Réf.	English	Deutsch	Français	Italiano	Español	Part No. Teil - Nr. Code No. Cod. No. Código	Qty. Stck. Qté. Qtà. Ctd.		
							R5P		
							06	08	10
18	Plug G1/4"	Stopfen G1/4"	Bouchon G1/4"	Tappo G1/4"	Tapón G1/4"	036-84618-0	1	1	1
	Plug SAE-4	Stopfen SAE-4	Bouchon SAE-4	Tappo SAE-4	Tapón SAE-4	488-35013-0	1	1	1
19	O-Ring for plug G1/4":	Runddichtring für Stopfen G1/4":	Joint torique pour bouchon G1/4":	O-Ring per tappo G1/4":	Tórica para Tapón G1/4":				
	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00016-0	1	1	1
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00016-0	1	1	1
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00016-0	1	1	1
	O-Ring for plug SAE-4:	Runddichtring für Stopfen SAE-4:	Joint torique pour bouchon SAE-4:	O-Ring per tappo SAE-4:	Tórica para Tapón SAE-4:				
	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00904-0	1	1	1
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00904-0	1	1	1
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00904-0	1	1	1
20	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00214-0	1	-	-
						691-00219-0	-	1	-
						691-00222-0	-	-	1
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00214-0	1	-	-
						694-00219-0	-	1	-
						694-00222-0	-	-	1
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00214-0	1	-	-
						695-00219-0	-	1	-
695-00222-0						-	-	1	
21	Spring	Feder	Ressort	Molla	Muelle	036-36402-0	1	-	-
						036-36404-0	-	1	1
22	Spool	Kolben	Clapet	Pistone	Pistón	036-36285-0	1	-	-
						036-36284-0	-	1	1
23	Sleeve	Hülse	Chemise	Camicia	Camisa	036-36286-0	1	-	-
						036-36283-0	-	1	1
24	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00018-0	2	-	-
						691-00125-0	-	2	2
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00018-0	2	-	-
						694-00125-0	-	2	2
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00018-0	2	-	-
695-00125-0						-	2	2	
25	Body (without port Y1.1)	Gehäuse (ohne Anschluß Y1.1)	Corps (sans orifice Y1.1)	Corpo (senza conness. Y1.1)	Cuerpo (sin boca Y1.1)	036-84444-0	1	1	1
	Body (Y1.1=G1/4")	Gehäuse (Y1.1=G1/4")	Corps (Y1.1=G1/4")	Corpo (Y1.1=G1/4")	Cuerpo (Y1.1=G1/4")	036-84445-0	1	1	1
	Body (Y1.1=SAE-4)	Gehäuse (Y1.1=SAE-4)	Corps (Y1.1=SAE-4)	Corpo (Y1.1=SAE-4)	Cuerpo (Y1.1=SAE-4)	036-86318-0	1	1	1
26	Plug M3 x 6	Stopfen M3 x 6	Bouchon M3 x 6	Tappo M3 x 6	Tapón M3 x 6	311-60012-2	2	2	2

Item Pos. Réf.	English	Deutsch	Français	Italiano	Español	Part No. Teil - Nr. Code No. Cod. No. Código	Qty. Stck. Qté. Qtà. Ctd.		
							R5P		
							06	08	10
27	O-Ring NBR (S1)	Runddichtring NBR (S1)	Joint torique NBR (S1)	O-Ring NBR (S1)	Tórica NBR (S1)	691-00022-0	1	-	-
						691-00026-0	-	1	1
	O-Ring EPDM (S4)	Runddichtring EPDM (S4)	Joint torique EPDM (S4)	O-Ring EPDM (S4)	Tórica EPDM (S4)	694-00022-0	1	-	-
						694-00026-0	-	1	1
	O-Ring FPM (S5)	Runddichtring FPM (S5)	Joint torique FPM (S5)	O-Ring FPM (S5)	Tórica FPM (S5)	695-00022-0	1	-	-
						695-00026-0	-	1	1
28	Screw 3/8"-24UNF x 1.3/4"lg.	Schraube	Vis	Vite	Tornillo Allen	359-15220-0	4	4	4
29	Screw 3/8"-24UNF x 3.1/2"lg.	Schraube	Vis	Vite	Tornillo Allen	359-15340-0	4	4	4
30	Vent Valve VV01	Entlastungsventil VV01	Valve de mise en by-pass VV01	Valvola di messa a scarico VV01	Válvula de Venting VV01	¹⁾	1	1	1
31	Proportional Valve P2	Proportionalventil P2	Valve pilote proportionnelle P2	Valvola proporzionale P2	Válvula Proporcional P2	²⁾	1	1	1
¹⁾	Spares see information S3-ML 215.	Ersatzteile siehe Information S3- ML 215.	Pièces de rechange voir information S3-ML 215.	Parti di ricambio si veda boll. S3-ML 215.	Recambios consultar boletín S3-ML 215.				
²⁾	Spares see information S3-ML 220.	Ersatzteile siehe Information S3- ML 220.	Pièces de rechange voir information S3-ML 220.	Parti di ricambio si veda boll. S3-ML 220.	Recambios consultar boletín S3-ML 220.				
	Seal Kits	Dichtringsätze	Pochettes de joints	Serie guarnizioni	Juegos de Juntas				
	Seals (NBR-S1)	Dichtringe (NBR-S1)	Joints (NBR-S1)	Guarnizioni (NBR-S1)	Juntas (NBR-S1)	S16-91461-0	1	-	-
						S16-91460-0	-	1	-
						S16-91459-0	-	-	1
	Seals (EPDM-S4)	Dichtringe (EPDM-S4)	Joints (EPDM-S4)	Guarnizioni (EPDM-S4)	Juntas (EPDM-S4)	S16-91461-4	1	-	-
						S16-91460-4	-	1	-
						S16-91459-4	-	-	1
	Seals (FPM-S5)	Dichtringe (FPM-S5)	Joints (FPM-S5)	Guarnizioni (FPM-S5)	Juntas (FPM-S5)	S16-91461-5	1	-	-
						S16-91460-5	-	1	-
						S16-91459-5	-	-	1
	Not shown:	Nicht dargestellt:	Non représenté:	Non rappresentato:	No representado:				
	Name plate	Typenschild	Plaque d'identification	Targhetta di identificazione	Placa Nomenclatura	036-84772-0	1	1	1
	Rivet	Kerbnagel	Rivet	Rivetto	Remache	320-10203-0	2	2	2

Note:
R5P + F5C = 3-Port Proportional Flow Control Valve

Model Number:

R5P

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for version
without VV01
& without P2

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| <p>1 Series</p> <p>R5P = 3-Port Compensator</p> <p>2 Size</p> <p>06 = 3/4"</p> <p>08 = 1"</p> <p>10 = 1 1/4"</p> <p>3 Max. Pressure (w/o F5C)</p> <p>0 = 350 bar (for cartridge only)</p> <p>4 = 280 bar, for 1 1/4" body valve only</p> <p>5 = 350 bar, for 3/4" & 1" body valve only</p> <p>4 Body Mounting</p> <p>Cartridge with pilot head:</p> <p>0 = without Y1.1 port (plain cap, only with Pilot Connection code 2)</p> <p>E = Y1.1 port = G 1/4" (only with Pilot Connection code 4)</p> <p>F = Y1.1 port = SAE-4 (only with Pilot Connection code 4)</p> <p>Flange body with pilot head (Y1 port plugged):</p> <p>3 = X2.2, Y1.1³⁾ and M ports = SAE-4 } ³⁾ for Pilot Connection</p> <p>9 = X2.2, Y1.1³⁾ and M ports = G 1/4" } codes 4 and 6 only</p> <p>Flange body with pilot head (Y1 port open):</p> <p>P = X2.2, Y1.1³⁾ and M ports = G 1/4" } ³⁾ for Pilot Connection</p> <p>S = X2.2, Y1.1³⁾ and M ports = SAE-4 } codes 4 and 6 only</p> <p>5 Pressure Setting Range</p> <p>1 = 7...105 bar</p> <p>3 = 7...210 bar</p> <p>5 = 7...350 bar</p> <p>6 Adjusting Device</p> <p>1 = Hand knob 32 mm dia.</p> <p>2 = Hand knob 50 mm dia. (not for version with vent valve VV01 or P2)</p> <p>3 = Acorn nut with lead seal</p> <p>4 = Adjusting device with key lock, key order no. 700-70619-8</p> <p>7 Pilot Connection</p> <p>2 = Internal PD – internal PP¹⁾ plain cap, X2.2 plugged; X2 open</p> <p>4 = External PD – external PP Y1.1, X2.2 open; X2 plugged</p> <p>5 = Internal PD – external PP plain cap, X2 plugged; X2.2 open</p> <p>6 = External PD – internal PP¹⁾ Y1.1, X2 open ; X2.2 plugged</p> <p>¹⁾ Internal PP connection on flange face to link with outlet port of flow control valve F5C.</p> <p>8 3-way Vent Valve VV01</p> <p>09 = with manual override } Solenoid de-energized: open to tank</p> <p>10 = without manual override } Solenoid energized: vent line blocked</p> <p>11 = with manual override } Solenoid de-energized: vent line blocked</p> <p>12 = without manual override } Solenoid energized: open to tank</p> <p>9 Electric Proportional Pressure Control (12 V DC only)</p> <p>P2 = Solenoid de-energized: open to tank. Solenoid energized: valve in function.</p> <p>Only with Pilot Connection codes 4 & 6 (external drain port Y1.1.)</p> <p>10 Solenoid Voltage and Current</p> <p>W01 = 115 V / 60 Hz } ²⁾ G0R = 12 V } AC</p> <p>W02 = 230 V / 60 Hz } G0Q = 24 V } DC</p> <p>W06 = 115 V / 50 Hz } G0H = 48 V }</p> <p>W07 = 230 V / 50 Hz } ²⁾ R5P...P2 = 12 VDC only</p> <p>11 Design Letter</p> <p>12 Seal Class</p> <p>1 = NBR (Buna N) Standard</p> <p>4 = EPDM</p> <p>5 = FPM (Viton[®])</p> <p>13 Modifications</p> | <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> |
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