ENGINEERING
TOMORROW

Service guide

Pressure relief valve
VRH 5 - 120 (F)
Disassembling and assembling



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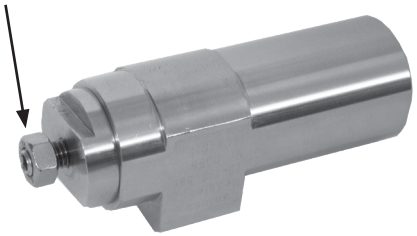
Introduction

NOTE: If the pressure relief valve is disassembled within the warranty period, the valve is no longer covered by the warranty.

This document covers the instructions for disassembling and assembling the pressure relief valve VRH 5 - 120 (F).

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1. Disassembling



1. Loosen counter nut and screw adjustment screw fully out.



2. Loosen and unscrew end cover



3. Remove end cover.



4. Remove spring.



5. Remove tube.



6. Remove puppet



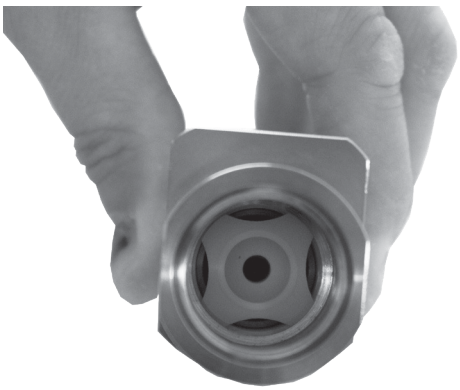
7. Loosen valve seat.



8. Unscrew valve seat.



9. Remove puppet.





11. Insert special tool.



12. Loosen poppet guide.

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13 Unscrew poppet guide.

2. Assembling



1. Insert poppet guide



2. Tighten as specified in the drawing.





4. Insert poppet.



5. Insert tube.



6. Insert spring.



7. Mount the cover.



8. Tighten as specifi ed on the drawing.



9. Insert poppet.



10. Insert valve seat.

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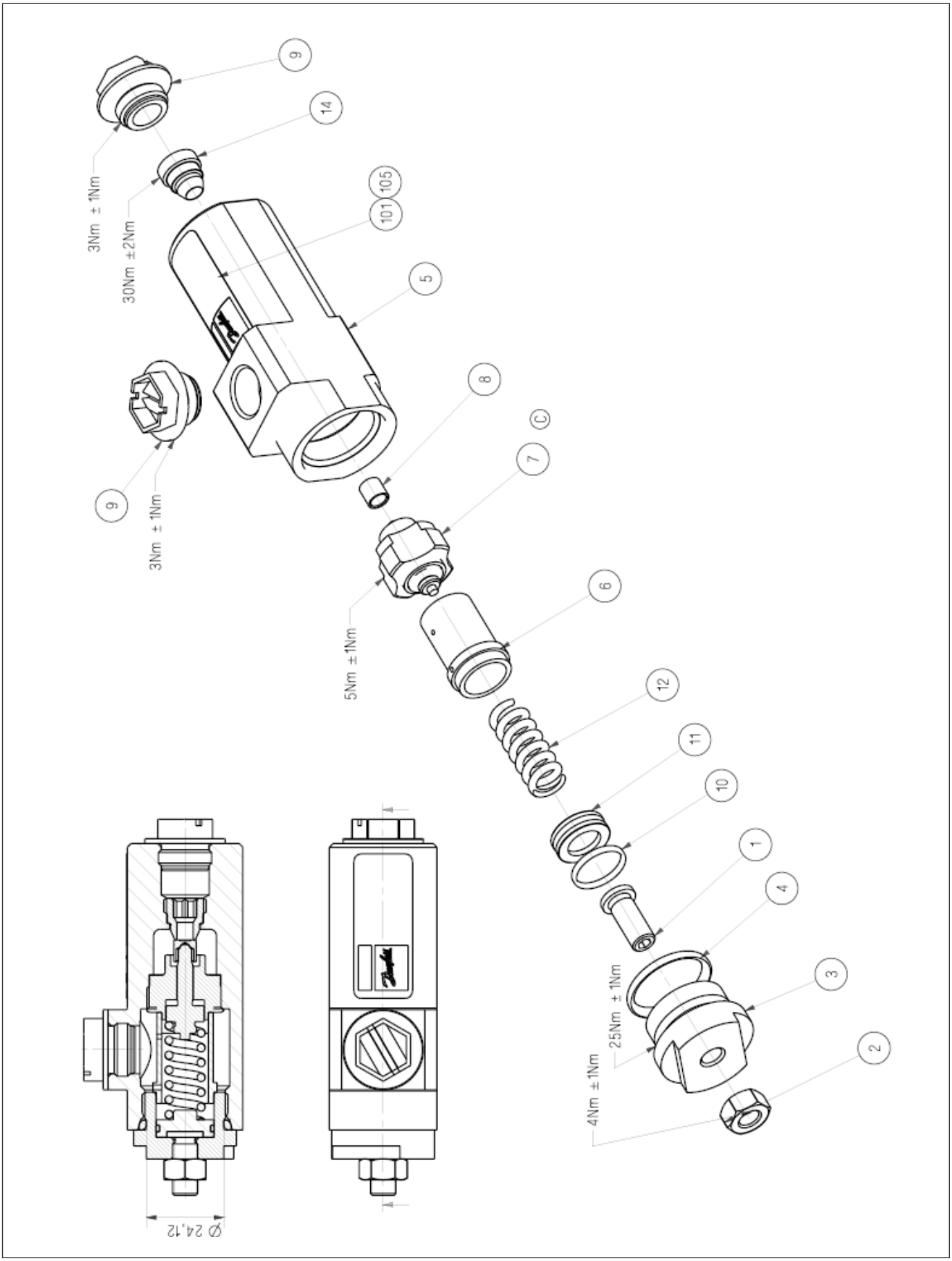
11. Tighten as specified on the drawing.

3. Service kit liste for VRH 5

VRH 5 kit				180G4018 Valve seat and cone kit	180G4001 Guide and guide pin	180G4019 Seal and spring kit	180G4003 Tool kit
Pos.	**Qty.**	**Unit**	**Designation**				
4	1	Pc.	O-ring 23,7 x 2,8 mm			X	
7	1	Pc.	Cone guide		X		
10	1	Pc.	O-ring (Ø15,0 x 1,5)			X	
11	1	Pc.	Spring guide			X	
12	1	Pc.	Spring			X	
-	1	Pc.	Special tool				X
-	1	Pc.	HEX key 7 mm				X
8	1	Pc.	Cone	X			
14	1	Pc.	Valve seat	X			

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3.1 Exploded view VRH 5

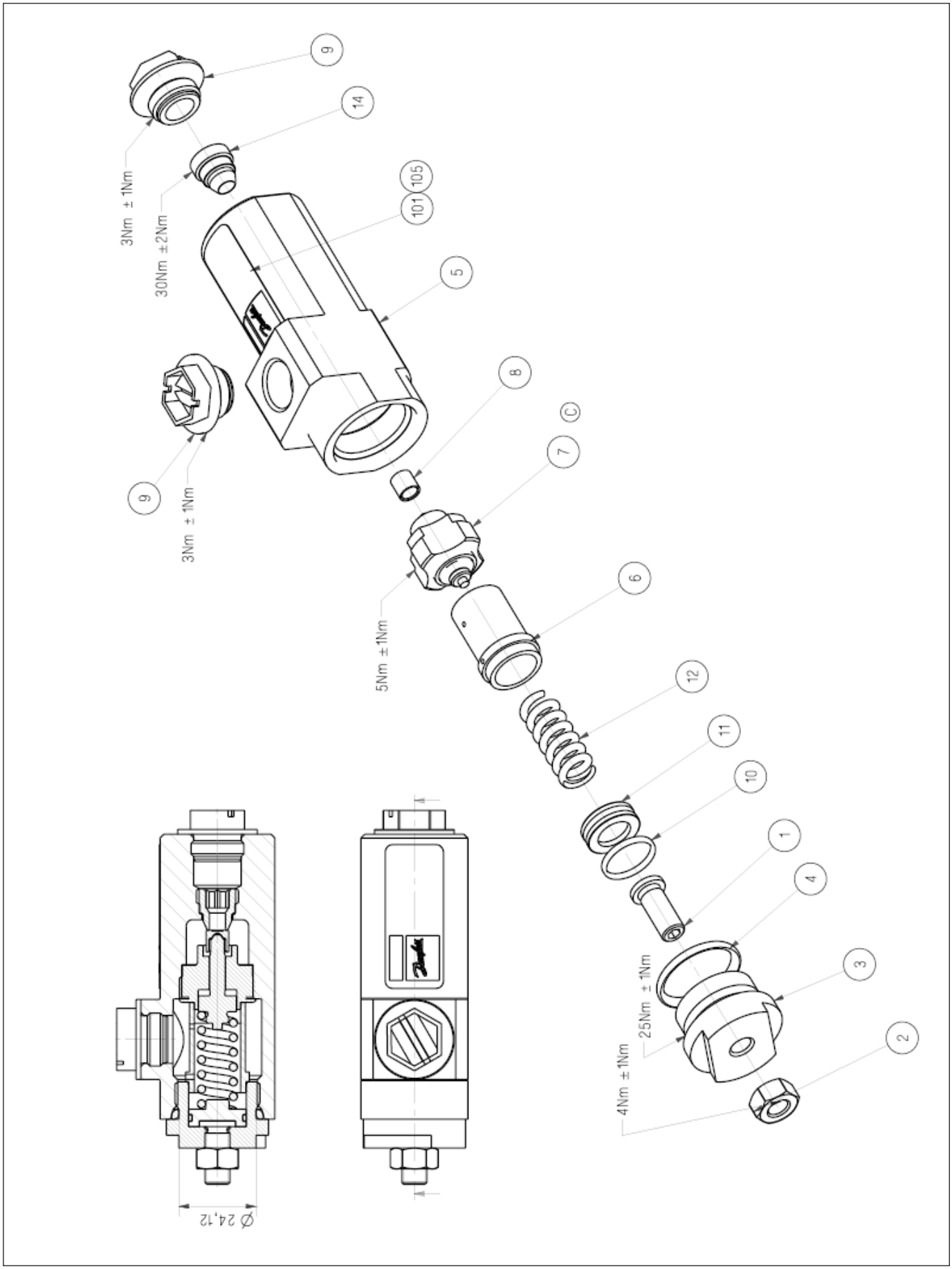


4. Service kit liste for VRH 30

VRH 30 joint kit				180G4000 Valve seat and cone kit (10-40 bar) + (25-140 bar)	180G4001 Guide and guide pin	180G4002 Seal and spring kit	180G4003 Tool kit	180G4003 Tool ki	180G4005 Valve seat and cone kit (45-210 bar)
Pos.	**Qty.**	**Unit**	**Designation**						
4	1	Pc.	O-ring 23,7 x 2,8 mm			X			
7	1	Pc.	Cone guide		X				
10	1	Pc.	O-ring (Ø15,0 x 1,5)			X			
11	1	Pc.	Spring guide			X			
12	1	Pc.	Spring			X			
-	1	Pc.	Special tool				X		
-	1	Pc.	HEX key 7 mm				X		
VRH 30 10-40 bar (180G0029)									
8	1	Pc.	Cone	X					
14	1	Pc.	Valve seat	X					
VRH 30 25-140 bar (180G0030)									
4	1	Pc.	O-ring 23,7 x 2,8 mm					X	
8	1	Pc.	Cone	X					
10	1	Pc.	O-ring (Ø15,0 x 1,5)					X	
11	1	Pc.	Spring guide					X	
12	1	Pc.	Spring					X	
14	1	Pc.	Valve seat	X					
VRH 30 45-210 bar (180G0031)									
4	1	Pc.	O-ring 23,7 x 2,8 mm					X	
8	1	Pc.	Cone						X
10	1	Pc.	O-ring (Ø15,0 x 1,5)					X	
11	1	Pc.	Spring guide					X	
12	1	Pc.	Spring					X	
14	1	Pc.	Valve seat						X

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4.1 Exploded view VRH 30

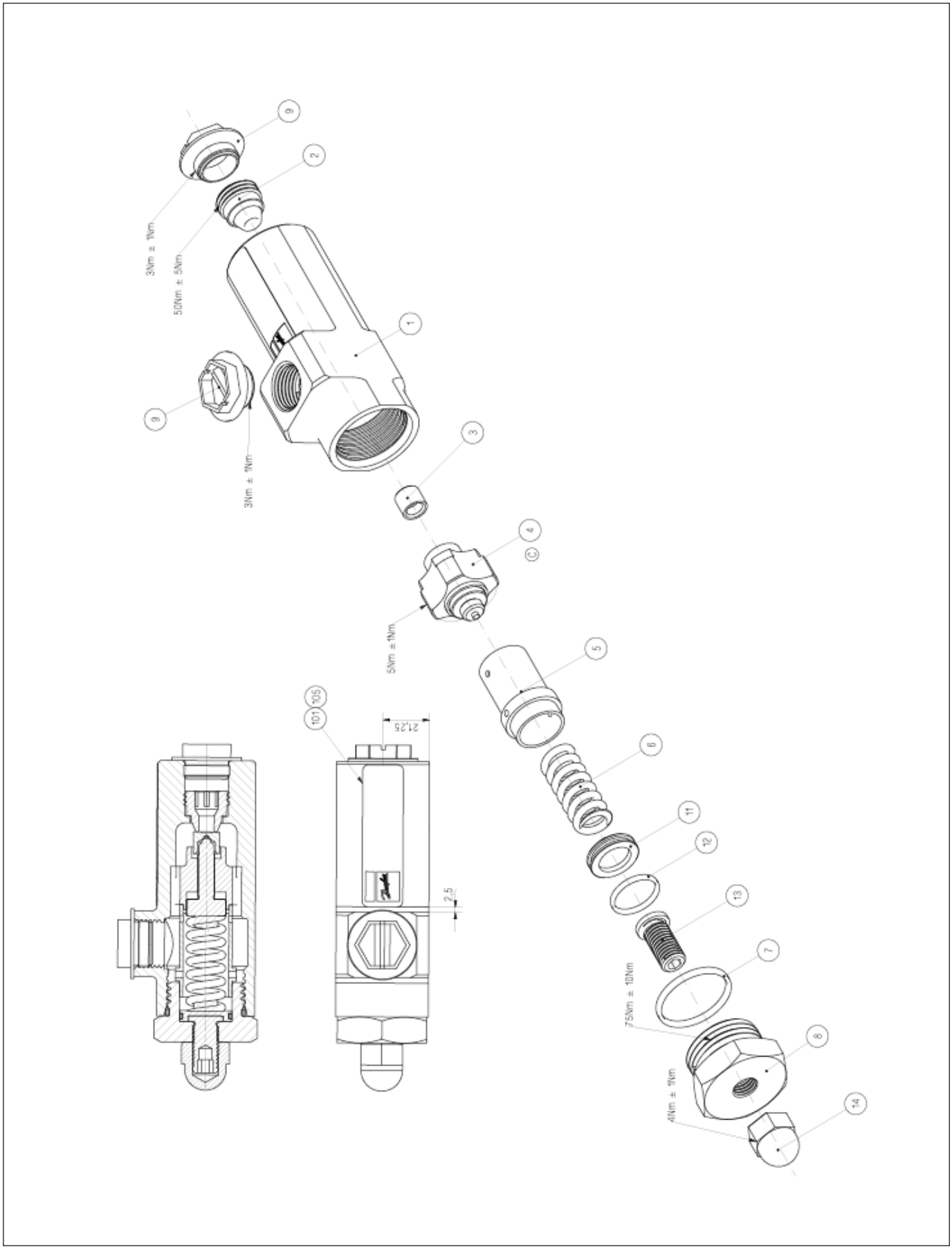


5. Service kit liste for VRH 60

VRH 60 joint kit				180G4006 - Valve seat and cone kit (10-40 bar)+(25-80 bar) +(80-140 bar)	1180G4007 - Guide and guide pin kit	180G4008 - Seal and spring kit (10-40 bar)	180G4009 - Seal and spring kit (25 -80 bar)	180G4010- Seal and spring kit (80-180 bar)	180G4011 - Tool kit
Pos.	**Qty.**	**Unit**	**Designation**						
2	1	Pc.	Valve seat	X					
3	1	Pc.	Cone	X					
4	1	Pc.	Cone guide		X				
-	1	Pc.	Special tool						X
-	1	Pc.	HEX key 7mm						X
VRH 60 10-40 bar (180G0001)									
6	1	Pc.	Spring			X			
7	1	Pc.	O-ring (33,0x2,50 mm)			X			
11	1	Pc.	Spring guide			X			
12	1	Pc.	O-ring (20,35x1,78 mm)			X			
VRH 60 25-80 bar (180G0002)									
6	1	Pc.	Spring				X		
7	1	Pc.	O-ring (33,0x2,50 mm)				X		
11	1	Pc.	Spring guide)				X		
12	1	Pc.	O-ring (20,35x1,78 mm)				X		
VRH 60 80-140 bar (180G0003)									
6	1	Pc.	Spring					X	
7	1	Pc.	O-ring (33,0x2,50 mm)					X	
11	1	Pc.	Spring guide					X	
12	1	Pc.	O-ring (20,35x1,78 mm)					X	

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5.1 Exploded view VRH 60

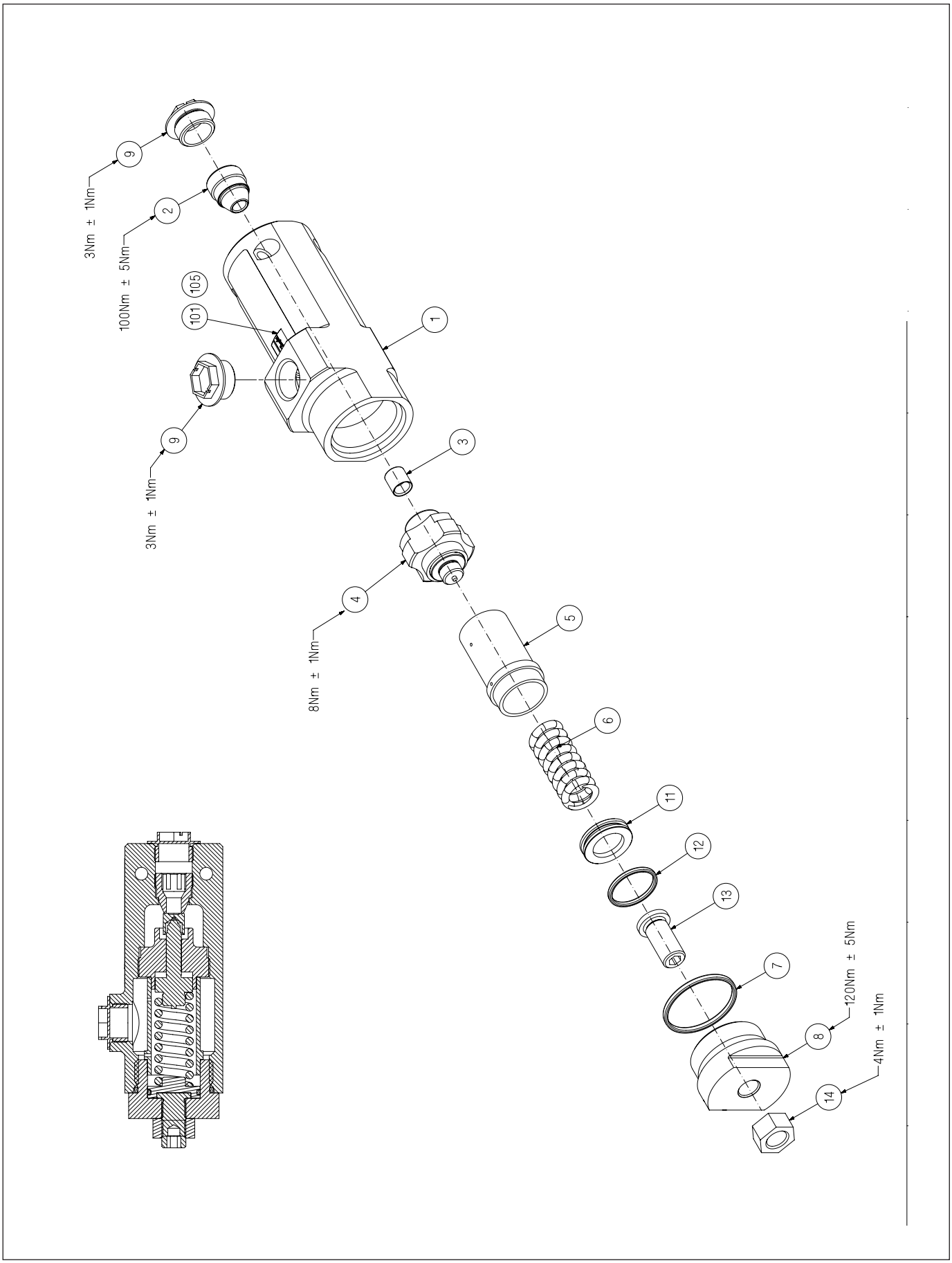


6. Service kit list for VRH 120

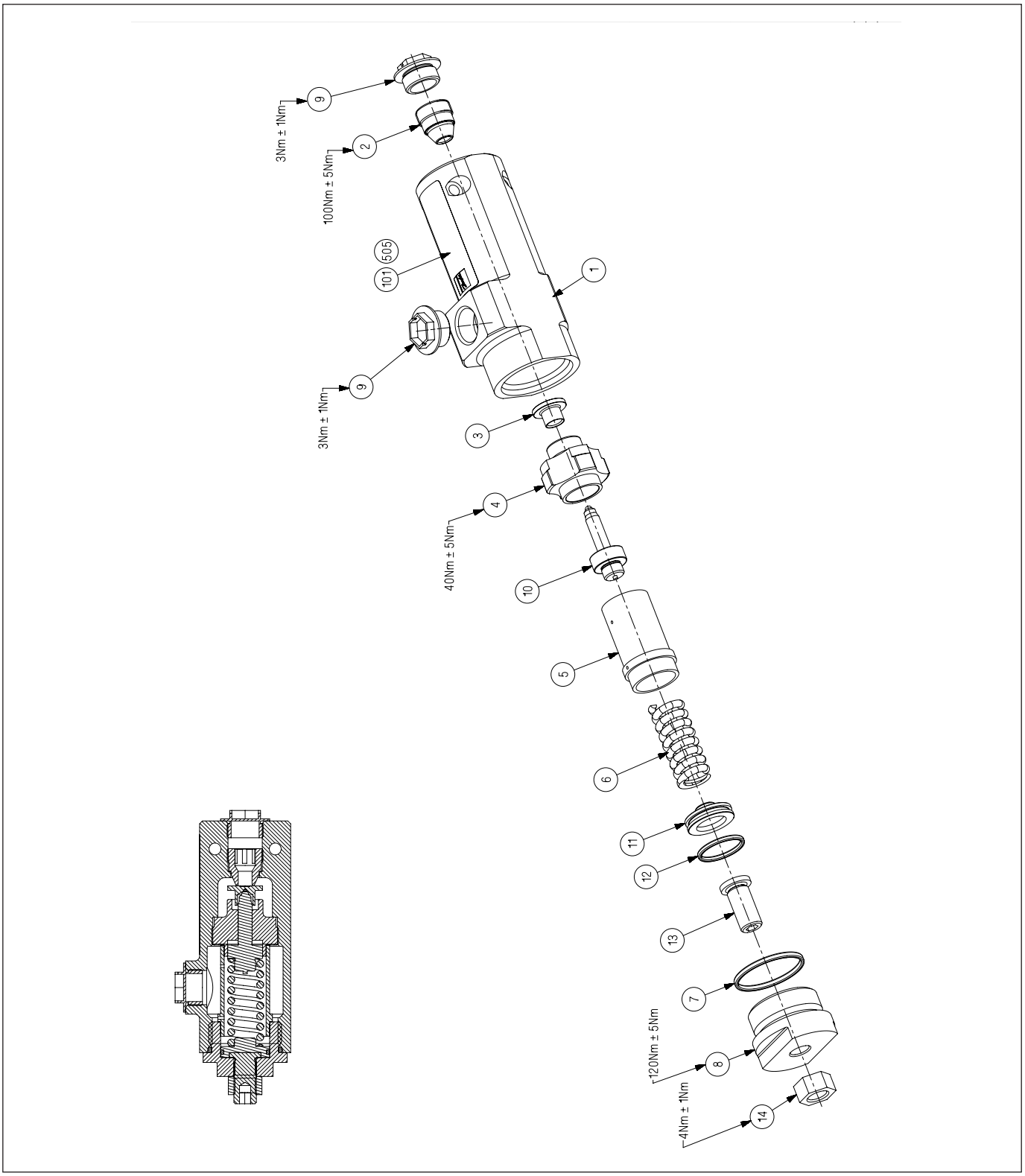
VRH 120 joint kit				180G4012 - Valve seat and cone kit *	180G4013 - Guide and guide pin kit	180G4014 - Seal and spring kit (25-80 bar)	180G4015 - Seal and spring kit (80-140 bar)	180G4016- Tool kit	180G4021 - VRH120F Guide and guide pin kit
Pos.	**Qty.**	**Unit**	**Designation**						
2	1	Pc.	Valve seat	X					
3	1	Pc.	Cone	X					
4	1	Pc.	Cone guide		X				
-	1	Pc.	Special tool					X	
-	1	Pc.	HEX key 7mm					X	
VRH 120 25-80 bar (180G0020)									
6	1	Pc.	Spring			X			
7	1	Pc.	O-ring (47,22x3,53 mm)			X			
11	1	Pc.	Spring guide			X			
12	1	Pc.	O-ring 29,82x2,62			X			
VRH 120 80-140 bar (180G0021)									
6	1	Pc.	Spring				X		
7	1	Pc.	O-ring (47,22x3,53 mm)				X		
11	1	Pc.	Spring guide)				X		
12	1	Pc.	O-ring 29,82x2,62				X		
VRH 120F 80-140 bar (180G0035)									
4	1	Pc.	Bushing (304 stainless steel)						X
6	1	Pc.	Spring				X		
7	1	Pc.	O-ring (47,22x3,53 mm)				X		
10	1	Pc.	Cone guide						X
11	1	Pc.	Spring guide				X		
12	1	Pc.	O-ring 29,82x2,62				X		

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6.1 Exploded view VRH 120



6.2 Exploded view VRH 120F



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