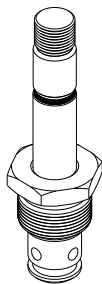
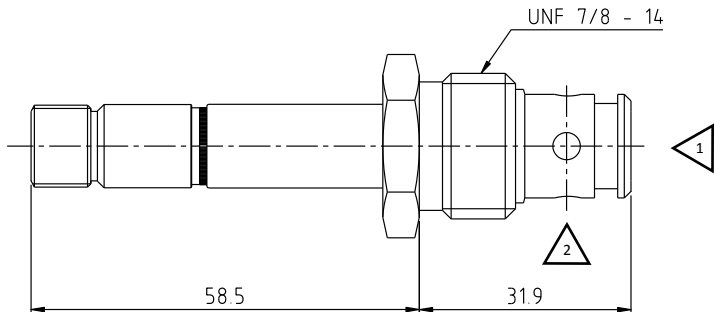
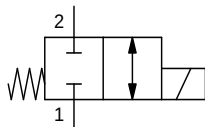
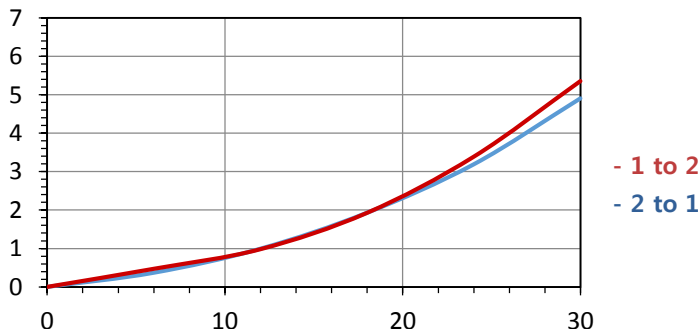


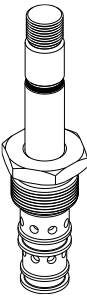
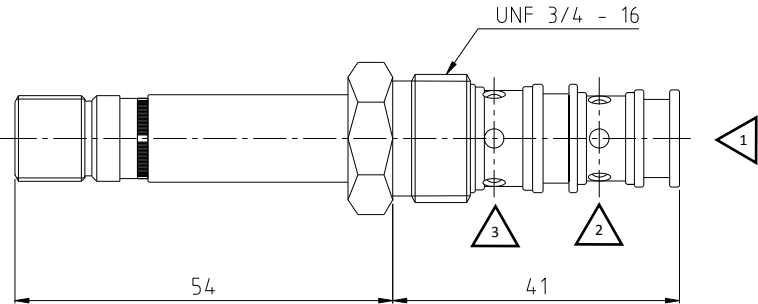
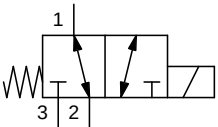
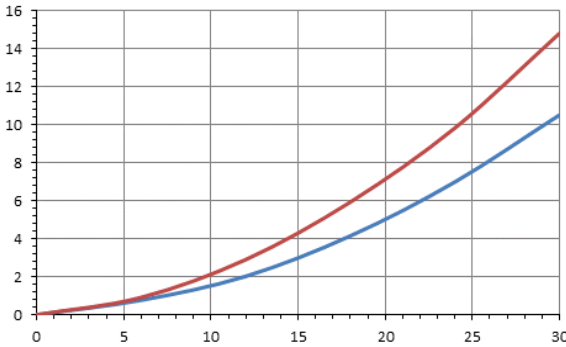


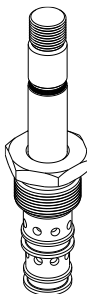
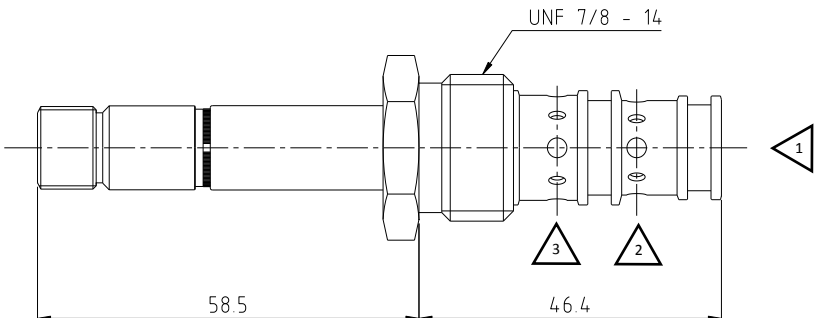
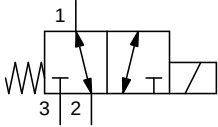
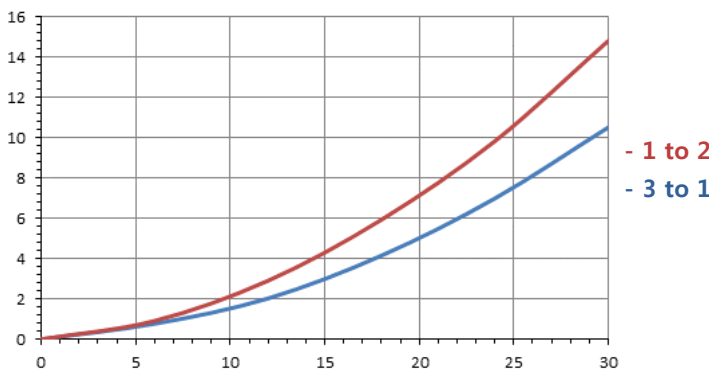
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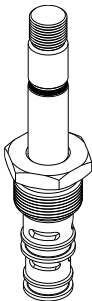
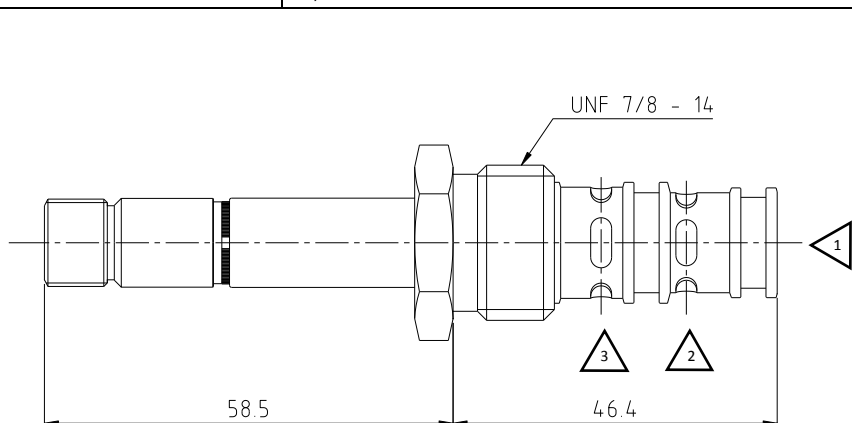
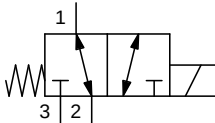
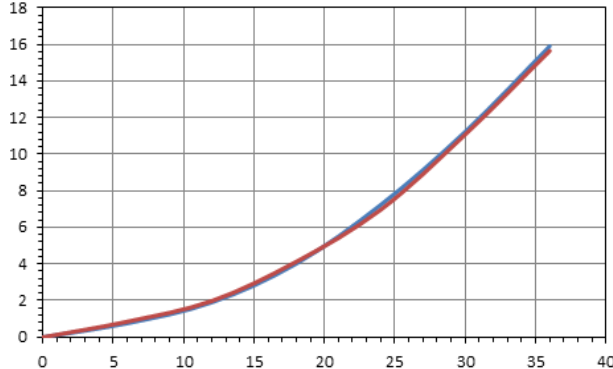
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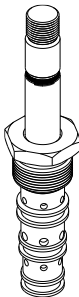
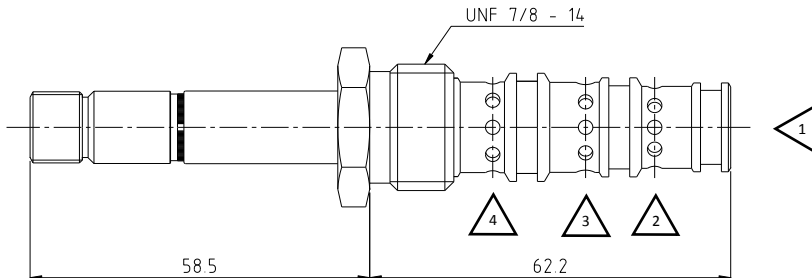
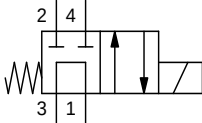
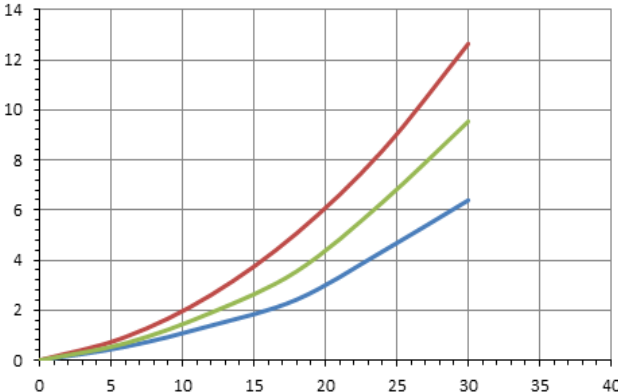
SOLENOID VALVE

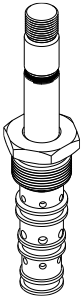
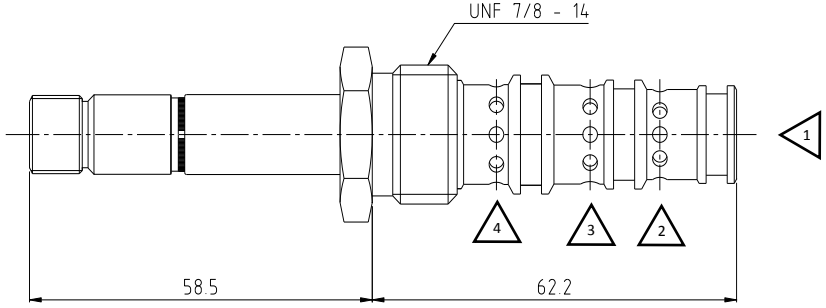
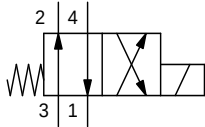
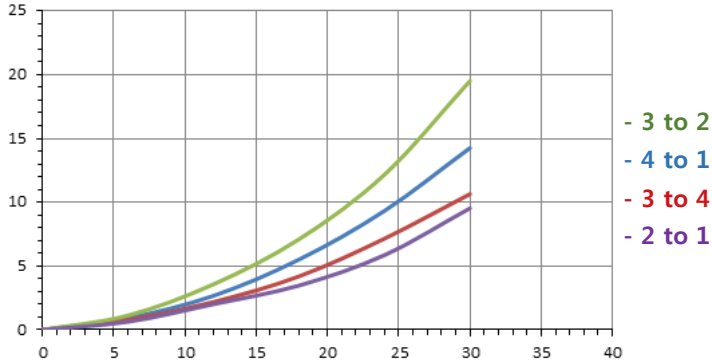
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		2-way, solenoid-operated directional spool valve	
		▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 30 L/min
▼ HYDRAULIC SYMBOL			
			
▼ TECHNICAL DATA			▼ TECHNICAL FEATURES
Cavity		10-2 common cavity	
Capacity		30 L/min	
Maximum Operating Pressure		210 bar	
Response Time – Typical		50 ms	
Switching Frequency		15,000 cycles/hr	
Maximum Valve Leakage at 46cSt		80 cc/min @ 210 bar	
Solenoid Tube Diameter		12.8 mm	
Valve Hex Size		HEX 24 mm	
Valve Installation Torque		35 N.M	
▼ PERFORMANCE CURVE			▼ CONFIGURATION
Pressure Differential (bar) vs. Flow (L/min)  - 1 to 2 - 2 to 1			SEAL MATERIAL : - N.B.R - VITON COIL : - VDD 12V / 24V (DEUTSCH) - VDL 12V / 24V (LEAD WIRE)

	SV08-S3C-00	
	3-way, solenoid-operated directional spool valve	
	▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 10 L/min
		
▼ HYDRAULIC SYMBOL		
▼ TECHNICAL DATA		▼ TECHNICAL FEATURES
Cavity	8-3 common cavity	• All ports will accept maximum pressure 210 bar • This valve utilizes a wet armature design • Coil termination and voltage options are available • APPENDIX A contains engineering drawings for cavities
Capacity	10 L/min	
Maximum Operating Pressure	210 bar	
Response Time – Typical	50 ms	
Switching Frequency	15000 cycles/hr	
Maximum Valve Leakage at 46cSt	50 cc/min @ 210 bar	
Solenoid Tube Diameter	12.8 mm	
Valve Hex Size	HEX 22 mm	
Valve Installation Torque	35 N.M	▼ CONFIGURATION
▼ PERFORMANCE CURVE	Pressure Differential (bar) vs. Flow (L/min)	
		SEAL MATERIAL : • N.B.R • VITON COIL : Delta “P” Type • PDT 12/ 24V (DEUTSCH) • PDL 12V / 24V (LEAD WIRE) • PHC 12V / 24V (DIN 43650)

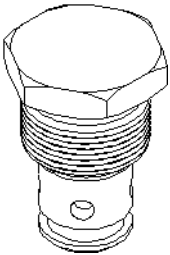
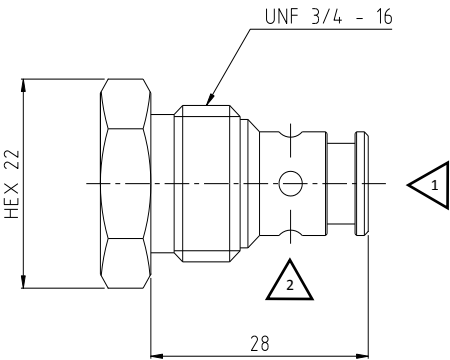
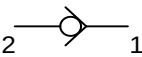
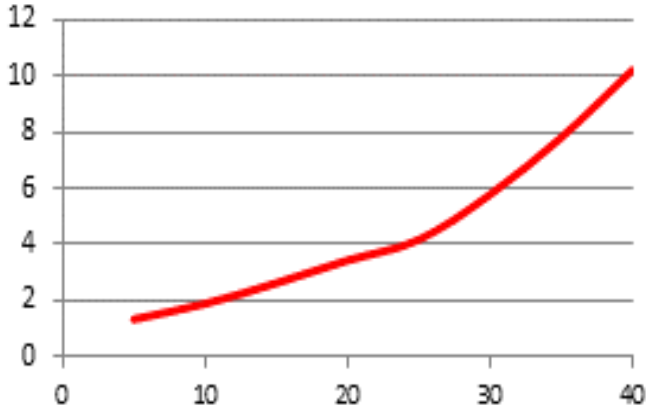
		SV10-S3C-Q0	
		3-way, solenoid-operated directional spool valve	
		▼ DIMENSIONS	PRESSURE: 110 bar CAPACITY: 30 L/min
▼ HYDRAULIC SYMBOL			
			
▼ TECHNICAL DATA		▼ TECHNICAL FEATURES	
Cavity	10-3 common cavity		
Capacity	30 L/min		
Maximum Operating Pressure	110 bar		
Response Time – Typical	50 ms		
Switching Frequency	15000 cycles/hr		
Maximum Valve Leakage at 46cSt	40 cc/min @ 210 bar		
Solenoid Tube Diameter	12.8 mm		
Valve Hex Size	HEX 25 mm		
Valve Installation Torque	35 N.M		
▼ PERFORMANCE CURVE		▼ CONFIGURATION	
Pressure Differential (bar) vs. Flow (L/min) 		SEAL MATERIAL : - N.B.R - VITON COIL : - VDD 12V / 24V (DEUTSCH) - VDL 12V / 24V (LEAD WIRE)	

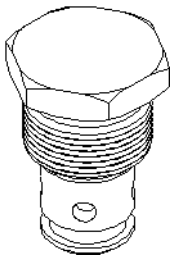
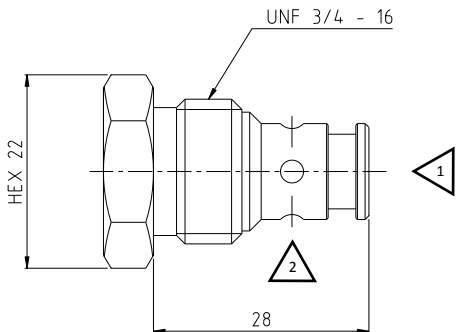
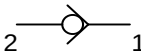
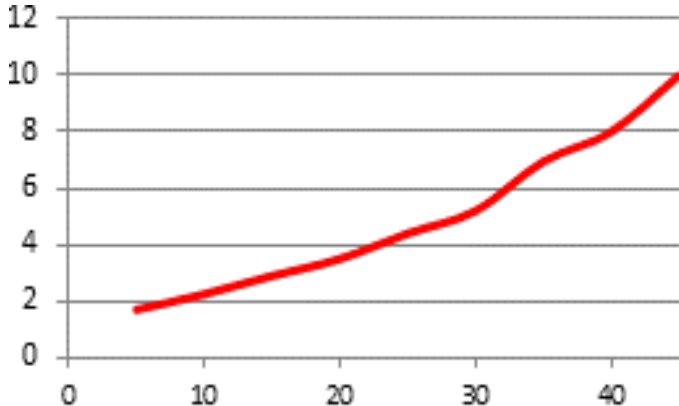
		SV10-S3C-00 / M0 / M1		
		3-way, solenoid-operated directional spool valve		
		▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 36 L/min	
▼ HYDRAULIC SYMBOL				
				
▼ TECHNICAL DATA				▼ TECHNICAL FEATURES
Cavity	10-3 common cavity			• All ports will accept maximum pressure 210 bar • This valve utilizes a wet armature design • Coil termination and voltage options are available • The manual override option allows the operator to shift the valve by twisting the knob. See the CONFIGURATION section • APPENDIX A contains engineering drawings for cavities
Capacity	36 L/min			
Maximum Operating Pressure	210 bar			
Response Time – Typical	50 ms			
Switching Frequency	15000 cycles/hr			
Maximum Valve Leakage at 46cSt	50 cc/min @ 210 bar			
Solenoid Tube Diameter	12.8 mm	▼ CONFIGURATION		
Valve Hex Size	HEX 25 mm			
Valve Installation Torque	35 N.M			
▼ PERFORMANCE CURVE				
Pressure Differential (bar) vs. Flow (L/min)  - 1 to 2 - 3 to 1		SEAL MATERIAL : • N.B.R • VITON MANUAL OVERRIDE : • M0 • M1 – New version of M0 COIL : • VDD 12V / 24V (DEUTSCH) • VDL 12V / 24V (LEAD WIRE)		

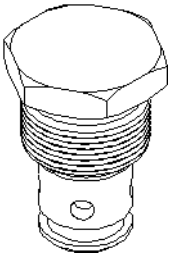
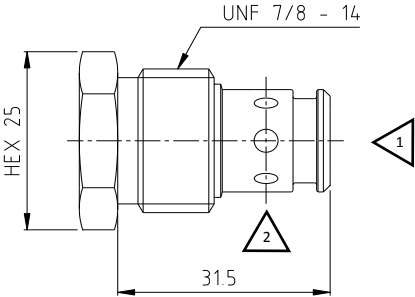
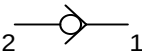
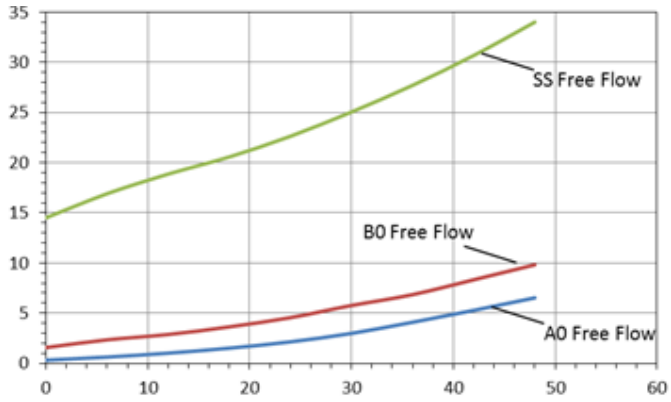
		SV10-S4C-00	
		4-way, solenoid-operated directional spool valve	
		▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 30 L/min
▼ HYDRAULIC SYMBOL			
			
▼ TECHNICAL DATA		▼ TECHNICAL FEATURES	
Cavity	10-4 common cavity	• All ports will accept maximum pressure 210 bar • This valve utilizes a wet armature design • Coil termination and voltage options are available • APPENDIX A contains engineering drawings for cavities	
Capacity	30 L/min		
Maximum Operating Pressure	210 bar		
Response Time – Typical	50 ms		
Switching Frequency	15000 cycles/hr		
Maximum Valve Leakage at 46cSt	80 cc/min @ 210 bar		
Solenoid Tube Diameter	12.8 mm		
Valve Hex Size	HEX 25 mm	▼ CONFIGURATION	
Valve Installation Torque	35 N.M		
▼ PERFORMANCE CURVE			
Pressure Differential (bar) vs. Flow (L/min)  - 3 to 2 - 3 to 1 - 4 to 1			
SEAL MATERIAL : • N.B.R • VITON COIL : • VDD 12V / 24V (DEUTSCH) • VDL 12V / 24V (LEAD WIRE)			

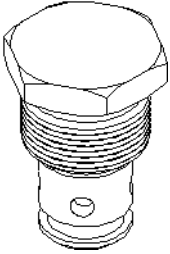
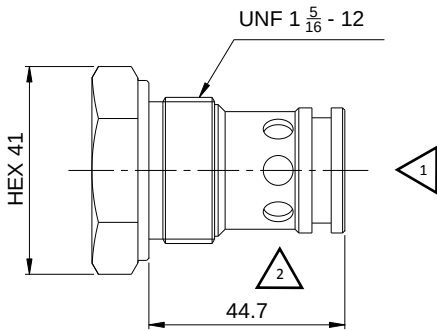
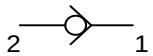
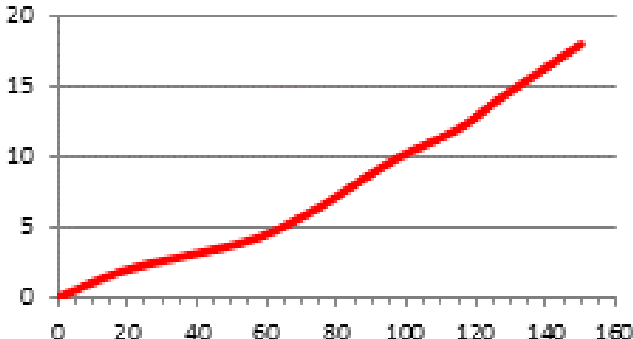
	SV10-S4O-00	
	4-way, solenoid-operated directional spool valve	
	▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 30 L/min
		
▼ HYDRAULIC SYMBOL		
		
▼ TECHNICAL DATA		▼ TECHNICAL FEATURES
Cavity	10-4 common cavity	• All ports will accept maximum pressure 210 bar • This valve utilizes a wet armature design • Coil termination and voltage options are available • APPENDIX A contains engineering drawings for cavities
Capacity	30 L/min	
Maximum Operating Pressure	210 bar	
Response Time - Typical	50 ms	
Switching Frequency	15000 cycles/hr	
Maximum Valve Leakage at 46cSt	80 cc/min @ 210 bar	
Solenoid Tube Diameter	12.8 mm	
Valve Hex Size	HEX 25 mm	▼ CONFIGURATION
Valve Installation Torque	35 N.M	
▼ PERFORMANCE CURVE		
Pressure Differential (bar) vs. Flow (L/min) 		SEAL MATERIAL : • N.B.R • VITON COIL : • VDD 12V / 24V (DEUTSCH) • VDL 12V / 24V (LEAD WIRE)

CHECK VALVE

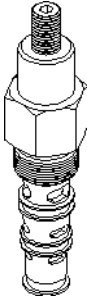
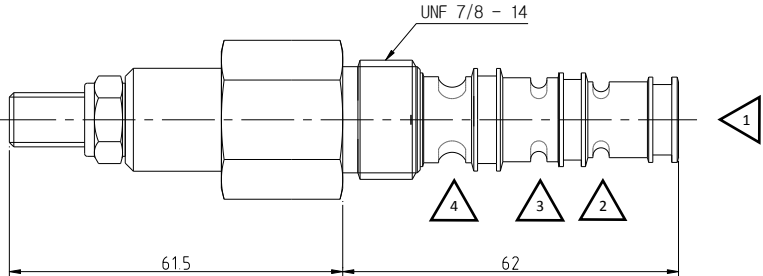
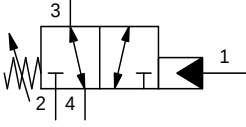
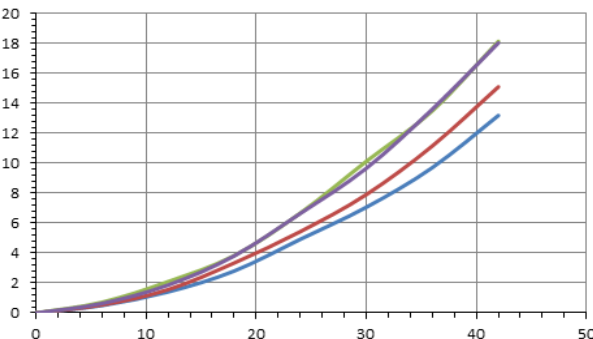
	CV08-P2C-A0	
	Screw-in type check valve	
	▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 35 L/min
		
▼ HYDRAULIC SYMBOL		
		
▼ TECHNICAL DATA		▼ TECHNICAL FEATURES
Cavity	8-2 common cavity	- Both port 1 and port 2 will accept maximum pressure 210 bar - The seat and poppet are heat treated for long life - Optional bias springs meet request of flexible back-pressure application - APPENDIX A contains engineering drawings for cavities
Capacity	35 L/min	
Maximum Operating Pressure	210 bar	
Maximum Valve Leakage at 46cSt	0.3 cc/min @ 210 bar	
Cracking Pressure	1.0 bar	
Valve Hex Size	HEX 22 mm	
Valve Installation Torque	35 N.M	
▼ PERFORMANCE CURVE		▼ CONFIGURATION
Pressure Differential (bar) vs. Flow (L/min) 		SEAL MATERIAL : - N.B.R - VITON

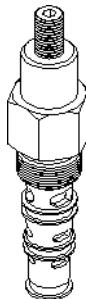
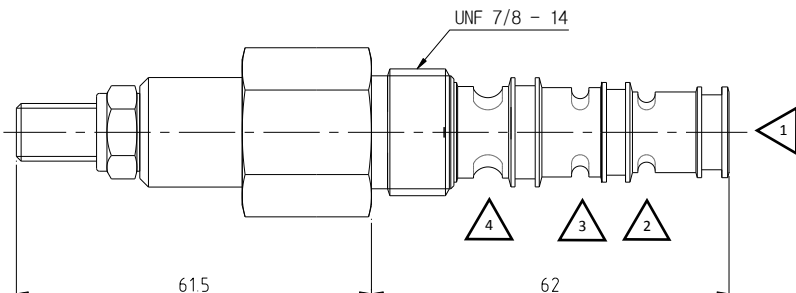
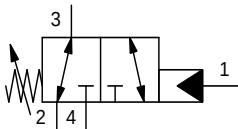
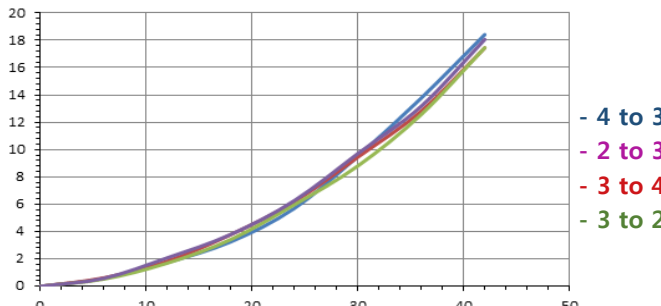
		CV08-P2C-B0															
		Screw-in type check valve															
		▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 45 L/min														
▼ HYDRAULIC SYMBOL																	
																	
▼ TECHNICAL DATA																	
Cavity		8-2 common cavity															
Capacity		45 L/min															
Maximum Operating Pressure		210 bar															
Maximum Valve Leakage at 46cSt		0.3 cc/min @ 210 bar															
Cracking Pressure		1.2 bar															
Valve Hex Size		HEX 22 mm															
Valve Installation Torque		35 N.M															
▼ TECHNICAL FEATURES																	
- Both port 1 and port 2 will accept maximum pressure 210 bar - The seat and poppet are heat treated for long life - Optional bias springs meet request of flexible back-pressure application - APPENDIX A contains engineering drawings for cavities																	
▼ PERFORMANCE CURVE																	
Pressure Differential (bar) vs. Flow (L/min) <table><caption>Approximate data points from the Performance Curve</caption><thead><tr><th>Flow (L/min)</th><th>Pressure Differential (bar)</th></tr></thead><tbody><tr><td>5</td><td>1.5</td></tr><tr><td>10</td><td>2.0</td></tr><tr><td>20</td><td>3.5</td></tr><tr><td>30</td><td>5.0</td></tr><tr><td>40</td><td>8.0</td></tr><tr><td>45</td><td>10.0</td></tr></tbody></table>				Flow (L/min)	Pressure Differential (bar)	5	1.5	10	2.0	20	3.5	30	5.0	40	8.0	45	10.0
Flow (L/min)	Pressure Differential (bar)																
5	1.5																
10	2.0																
20	3.5																
30	5.0																
40	8.0																
45	10.0																
▼ CONFIGURATION																	
SEAL MATERIAL : - N.B.R - VITON																	

	CV10-P2C-A0 / B0 / SS	
	Screw-in type check valve	
	▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 60 L/min
		
▼ HYDRAULIC SYMBOL		
		
▼ TECHNICAL DATA		▼ TECHNICAL FEATURES
Cavity	10-2 common cavity	- Both port 1 and port 2 will accept maximum pressure 210 bar - The seat and poppet are heat treated for long life - Optional bias springs meet request of flexible back-pressure application - APPENDIX A contains engineering drawings for cavities
Capacity	60 L/min	
Maximum Operating Pressure	210 bar	
Maximum Valve Leakage at 46cSt	0.3 cc/min @ 210 bar	
Valve Hex Size	HEX 25 mm	
Valve Installation Torque	35 N.M	
▼ PERFORMANCE CURVE		▼ CONFIGURATION
Pressure Differential (bar) vs. Flow (L/min) 		SEAL MATERIAL : - N.B.R - VITON CRACKING PRESSURE : - A0 (0.5 bar) - B0 (2.0 bar) - SS (13.0 bar)

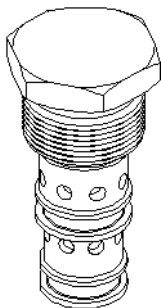
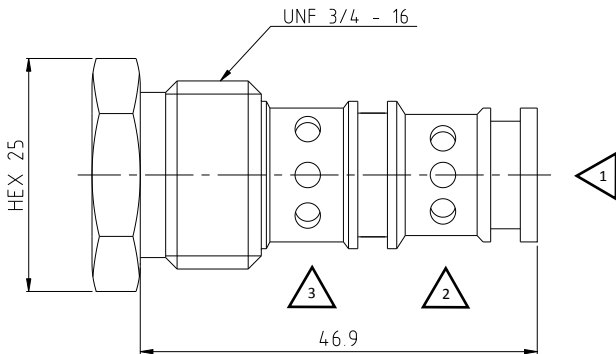
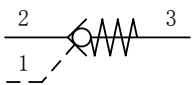
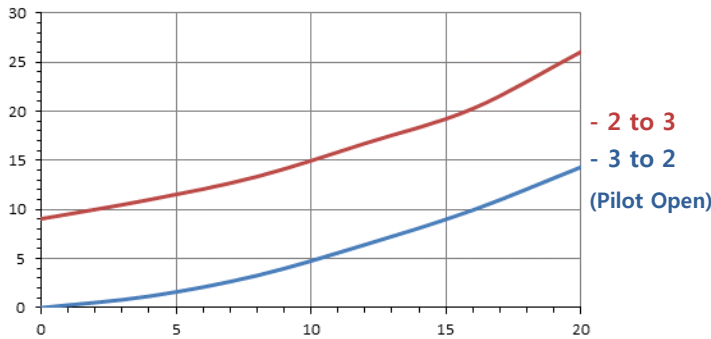
	CV16-P2C-00	
	Screw-in type check valve	
	▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 150 L/min
		
▼ HYDRAULIC SYMBOL		
		
▼ TECHNICAL DATA		▼ TECHNICAL FEATURES
Cavity	16-2 common cavity	- Both port 1 and port 2 will accept maximum pressure 210 bar - The seat and poppet are heat treated for long life - Optional bias springs meet request of flexible back-pressure application - APPENDIX A contains engineering drawings for cavities
Capacity	150 L/min	
Maximum Operating Pressure	210 bar	
Maximum Valve Leakage at 46cSt	0.3 cc/min @ 210 bar	
Cracking Pressure	1.0 bar	
Valve Hex Size	HEX 41 mm	
Valve Installation Torque	120 N.M	
▼ PERFORMANCE CURVE		▼ CONFIGURATION
Pressure Differential (bar) vs. Flow (L/min) 		SEAL MATERIAL : - N.B.R - VITON

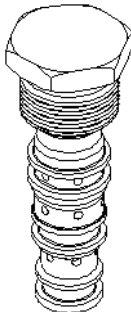
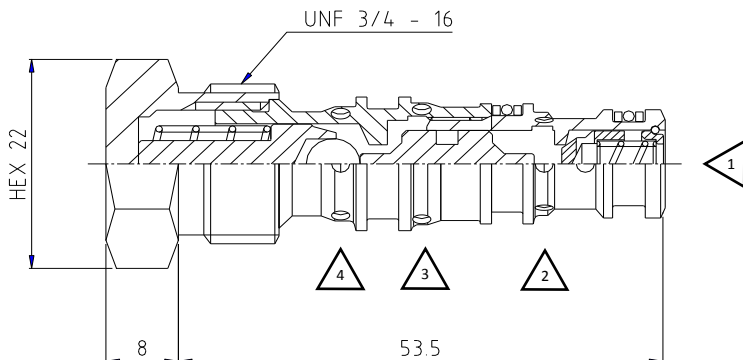
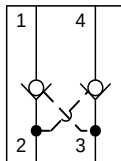
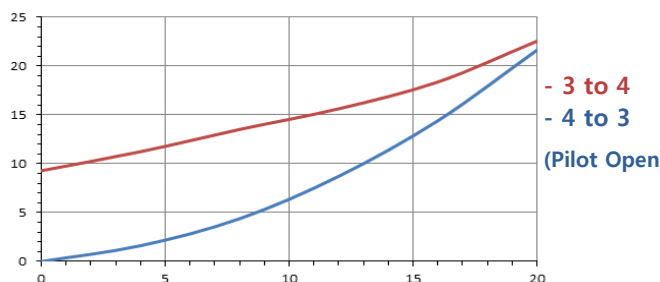
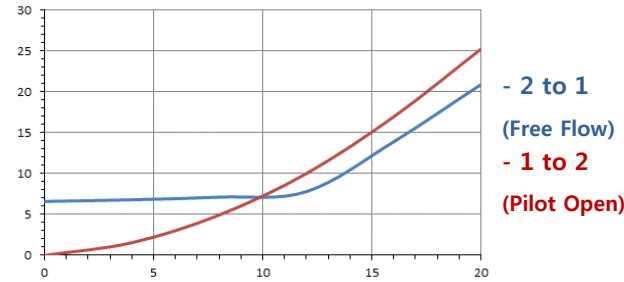
DIRECTIONAL VALVE

	PS10-S4C-00	
	3-way, pilot-operated directional spool valve – normally closed	
	▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 40 L/min
		
▼ HYDRAULIC SYMBOL		
		
▼ TECHNICAL DATA		▼ TECHNICAL FEATURES
Cavity	10-4 common cavity	• All ports will accept maximum pressure 210 bar • Available in either a normally open or normally closed configuration • The pilot pressure at port 4 directly opposes the spring force • APPENDIX A contains engineering drawings for cavities
Capacity	40 L/min	
Maximum Operating Pressure	210 bar	
Maximum Valve Leakage at 46cSt	100 cc/min @ 210 bar	
Setting Range	3-15 bar	
Number of Adjust Screw Turns	6	
Adjustment Screw Internal Hex Size	HEX 5mm	
Adjustment Nut Torque	10 N.M	
Valve Hex Size	HEX 25 mm	
Valve Installation Torque	35 N.M	
▼ PERFORMANCE CURVE		▼ CONFIGURATION
Pressure Differential (bar) vs. Flow (L/min)  - 3 to 2 - 2 to 3 - 3 to 4 - 4 to 3		SEAL MATERIAL : • N.B.R • VITON

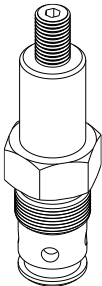
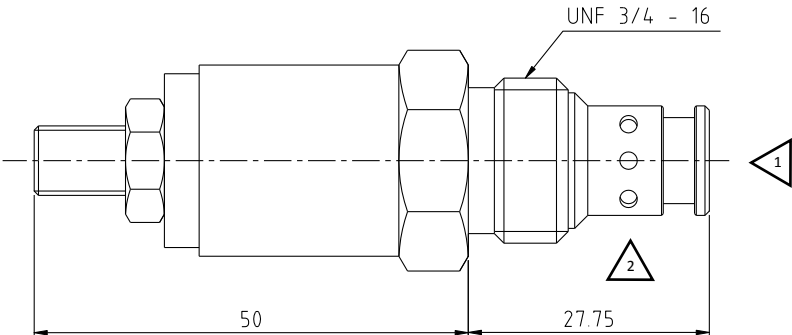
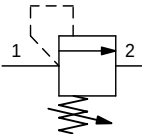
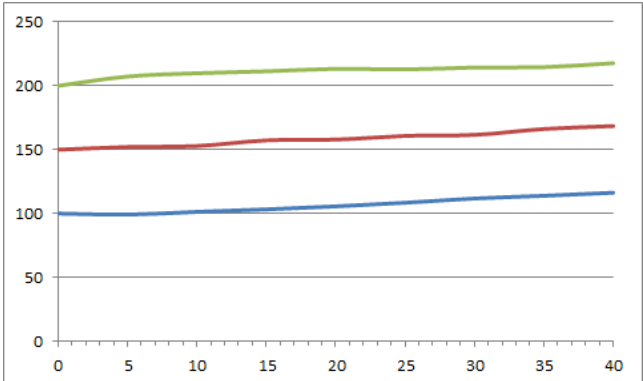
		PS10-S40-00	
		3-way, pilot-operated directional spool valve – normally open	
		▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 40 L/min
▼ HYDRAULIC SYMBOL			
			
▼ TECHNICAL DATA			▼ TECHNICAL FEATURES
Cavity	10-4 common cavity		• All ports will accept maximum pressure 210 bar • Available in either a normally open or normally closed configuration • The pilot pressure at port 4 directly opposes the spring force • APPENDIX A contains engineering drawings for cavities
Capacity	40 L/min		
Maximum Operating Pressure	210 bar		
Maximum Valve Leakage at 46cSt	100 cc/min @ 210 bar		
Setting Range	3-15 bar		
Number of Adjust Screw Turns	6		
Adjustment Screw Internal Hex Size	HEX 5mm		
Adjustment Nut Torque	10 N.M		
Valve Hex Size	HEX 25 mm		
Valve Installation Torque	35 N.M		
▼ PERFORMANCE CURVE			▼ CONFIGURATION
Pressure Differential (bar) vs. Flow (L/min)			SEAL MATERIAL : • N.B.R • VITON
			

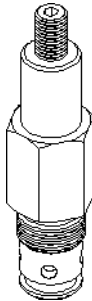
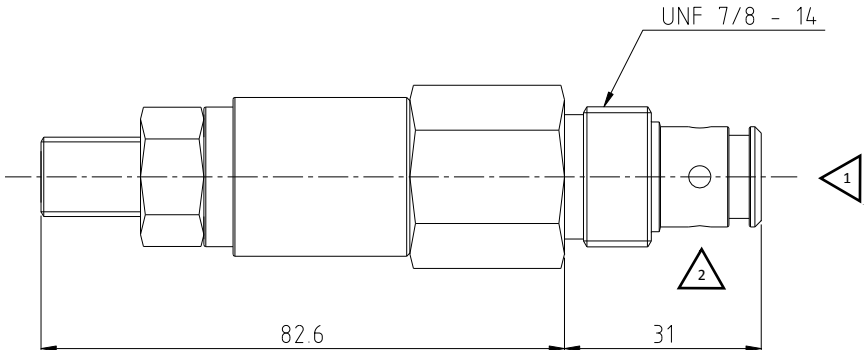
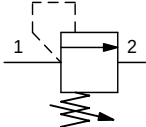
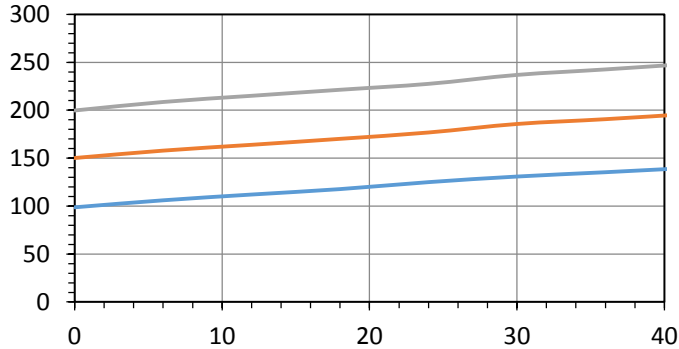
PILOT-TO-OPEN CHECK VALVE

		PC08-B3C-00	
		Pilot to open check valve	
		▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 20 L/min
▼ HYDRAULIC SYMBOL			
			
▼ TECHNICAL DATA		▼ TECHNICAL FEATURES	
Cavity	8-3 common cavity		
Capacity	20 L/min		
Maximum Operating Pressure	210 bar		
Pilot Ratio	3.5 : 1		
Cracking Pressure	10 bar		
Maximum Valve Leakage at 46cSt	0.3 cc/min @ 210 bar		
Valve Hex Size	HEX 22 mm		
Valve Installation Torque	35 N.M		
▼ PERFORMANCE CURVE		▼ CONFIGURATION	
Pressure Differential (bar) vs. Flow (L/min) 		SEAL MATERIAL : - N.B.R - VITON	

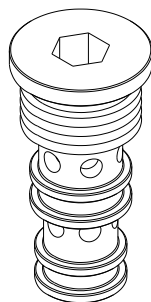
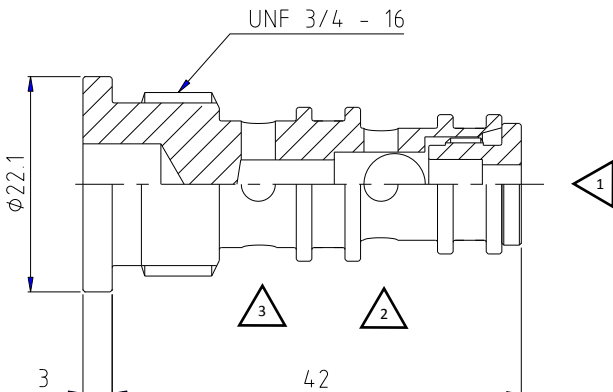
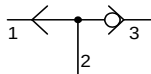
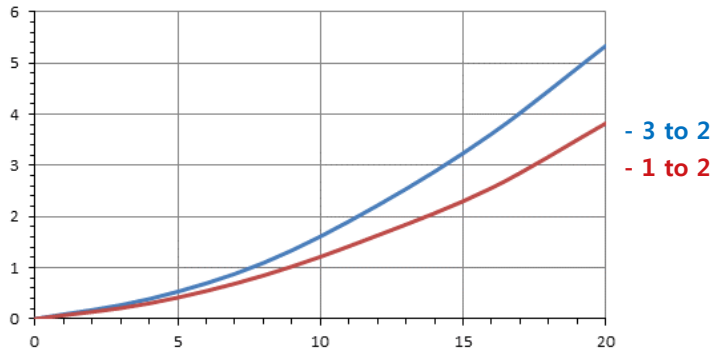
		PC08-B4C-00	
		Double pilot to open check valve	
	▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 20 L/min	
			
▼ HYDRAULIC SYMBOL			
			
▼ TECHNICAL DATA		▼ TECHNICAL FEATURES	
Cavity	8-4 common cavity	- All ports will accept maximum pressure 210 bar - The seat and poppet are heat treated for long life - The pilot pressure needed to open the valve is directly proportional to the load pressure - APPENDIX A contains engineering drawings for cavities	
Capacity	20 L/min		
Maximum Operating Pressure	210 bar		
Pilot Ratio	3 : 1		
Cracking Pressure	10 bar		
Maximum Valve Leakage at 46cSt	0.3 cc/min @ 210 bar		
Valve Hex Size	HEX 22 mm	▼ CONFIGURATION	
Valve Installation Torque	35 N.M	SEAL MATERIAL :	
		- N.B.R - VITON	
▼ PERFORMANCE CURVE			
Pressure Differential (bar) vs. Flow (L/min)		Pressure Differential (bar) vs. Flow (L/min)	
			

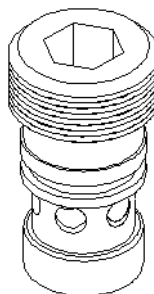
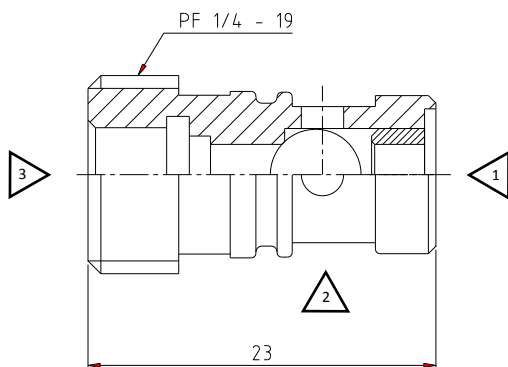
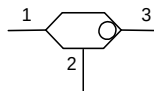
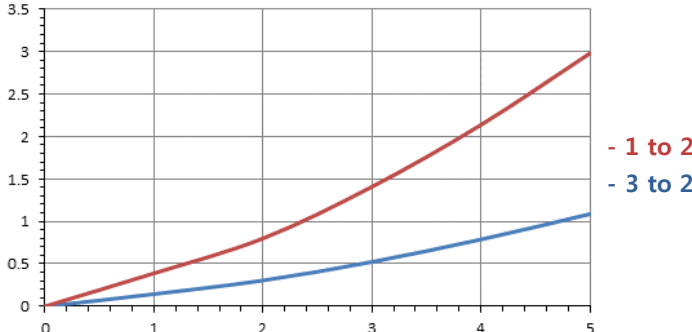
RELIEF VALVE

	RV08-P2C-00	
	Direct acting relief valve	
	▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 25 L/min
		
▼ HYDRAULIC SYMBOL		
		
▼ TECHNICAL DATA		▼ TECHNICAL FEATURES
Cavity	8-2 common cavity	• All ports will accept maximum pressure 210 bar • The seat and poppet are heat treated for long life • Rapid response to pressure changes • APPENDIX A contains engineering drawings for cavities
Capacity	25 L/min	
Maximum Operating Pressure	210 bar	
Leakage at 80% of Cracking Pressure	0.3 cc/min	
Setting Range	20-230 bar	
Adjustment Screw Internal Hex Size	HEX 4mm	
Adjustment Nut Torque	10 N.M	
Valve Hex Size	HEX 22 mm	
Valve Installation Torque	35 N.M	
▼ PERFORMANCE CURVE		▼ CONFIGURATION
Pressure Differential (bar) vs. Flow (L/min) 		SEAL MATERIAL : • N.B.R • VITON

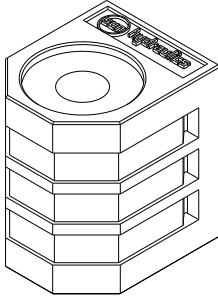
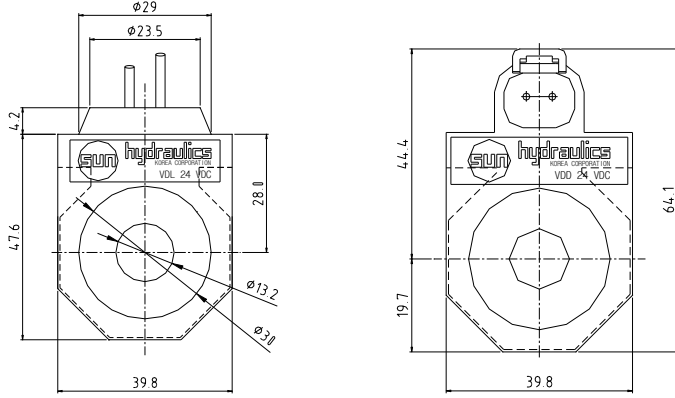
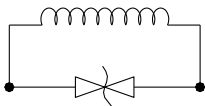
		RV10-P2C-A0 / B0	
		Direct acting relief valve	
		▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 30 L/min
▼ HYDRAULIC SYMBOL			
			
▼ TECHNICAL DATA			▼ TECHNICAL FEATURES
Cavity		10-2 common cavity	
Capacity		30 L/min	
Maximum Operating Pressure		210 bar	
Leakage at 80% of Cracking Pressure		0.3 cc/min	
Adjustment Screw Internal Hex Size		HEX 5mm	
Adjustment Nut Torque		10 N.M	
Valve Hex Size		HEX 25 mm	
Valve Installation Torque		35 N.M	
▼ PERFORMANCE CURVE			▼ CONFIGURATION
Pressure Differential (bar) vs. Flow (L/min) 			SEAL MATERIAL : • N.B.R • VITON SETTING RANGE : • A0 (100-230 bar) • B0 (10-130 bar)

SHUTTLE VALVE

		ST08-B3X-00															
		Shuttle valve															
		▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 20 L/min														
▼ HYDRAULIC SYMBOL																	
																	
▼ TECHNICAL DATA <table><tr><td>Cavity</td><td>8-3 common cavity</td></tr><tr><td>Capacity</td><td>20 L/min</td></tr><tr><td>Maximum Operating Pressure</td><td>210 bar</td></tr><tr><td>Maximum Valve Leakage at 46 cSt</td><td>0.3 cc/min</td></tr><tr><td>Adjustment Screw Internal Hex Size</td><td>HEX 8 mm</td></tr><tr><td>Valve Installation Torque</td><td>30 N.M</td></tr></table>				Cavity	8-3 common cavity	Capacity	20 L/min	Maximum Operating Pressure	210 bar	Maximum Valve Leakage at 46 cSt	0.3 cc/min	Adjustment Screw Internal Hex Size	HEX 8 mm	Valve Installation Torque	30 N.M	▼ TECHNICAL FEATURES - All ports will accept maximum pressure 210 bar - The seat and poppet are heat treated for long life - Rapid response to pressure changes - APPENDIX A contains engineering drawings for cavities	
Cavity	8-3 common cavity																
Capacity	20 L/min																
Maximum Operating Pressure	210 bar																
Maximum Valve Leakage at 46 cSt	0.3 cc/min																
Adjustment Screw Internal Hex Size	HEX 8 mm																
Valve Installation Torque	30 N.M																
▼ PERFORMANCE CURVE Pressure Differential (bar) vs. Flow (L/min)  SEAL MATERIAL : - N.B.R - VITON																	

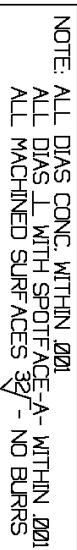
		iS02-B3X-00	
		Insert type shuttle valve	
		▼ DIMENSIONS	PRESSURE: 210 bar CAPACITY: 20 L/min
▼ HYDRAULIC SYMBOL			
			
▼ TECHNICAL DATA			▼ TECHNICAL FEATURES
Cavity Thread		PF ¼ - 19	
Capacity		5 L/min	
Maximum Operating Pressure		210 bar	
Maximum Valve Leakage at 46 cSt		0.3 cc/min	
Valve Internal Hex Size		HEX 6 mm	
Valve Installation Torque		12 N.M	
▼ PERFORMANCE CURVE			▼ CONFIGURATION
Pressure Differential (bar) vs. Flow (L/min) 			SEAL MATERIAL : N.B.R VITON

COILS

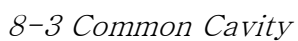
		VDD / VDL	
		Coil (lead wire / Deutsch type)	
	▼ DIMENSIONS		12V / 24V
			
▼ SCHEMATIC			
▼ TECHNICAL DATA			▼ TECHNICAL FEATURES
Voltage		24 VDC $\pm$ 10%	
Power Consumption		22W at 25°C	
Current AMP		0.84A $\pm$ 5%	
Resistance		27.6 Ω	
Response Time		40 ms	
Lead Wire		UL 3321 #20	
Terminal		Deutsch	
		- Coil termination and voltage options are available - Lead wire : 150mm ~ 1,000 mm - Connector environment rating : IP67 - Model weight : 350g	

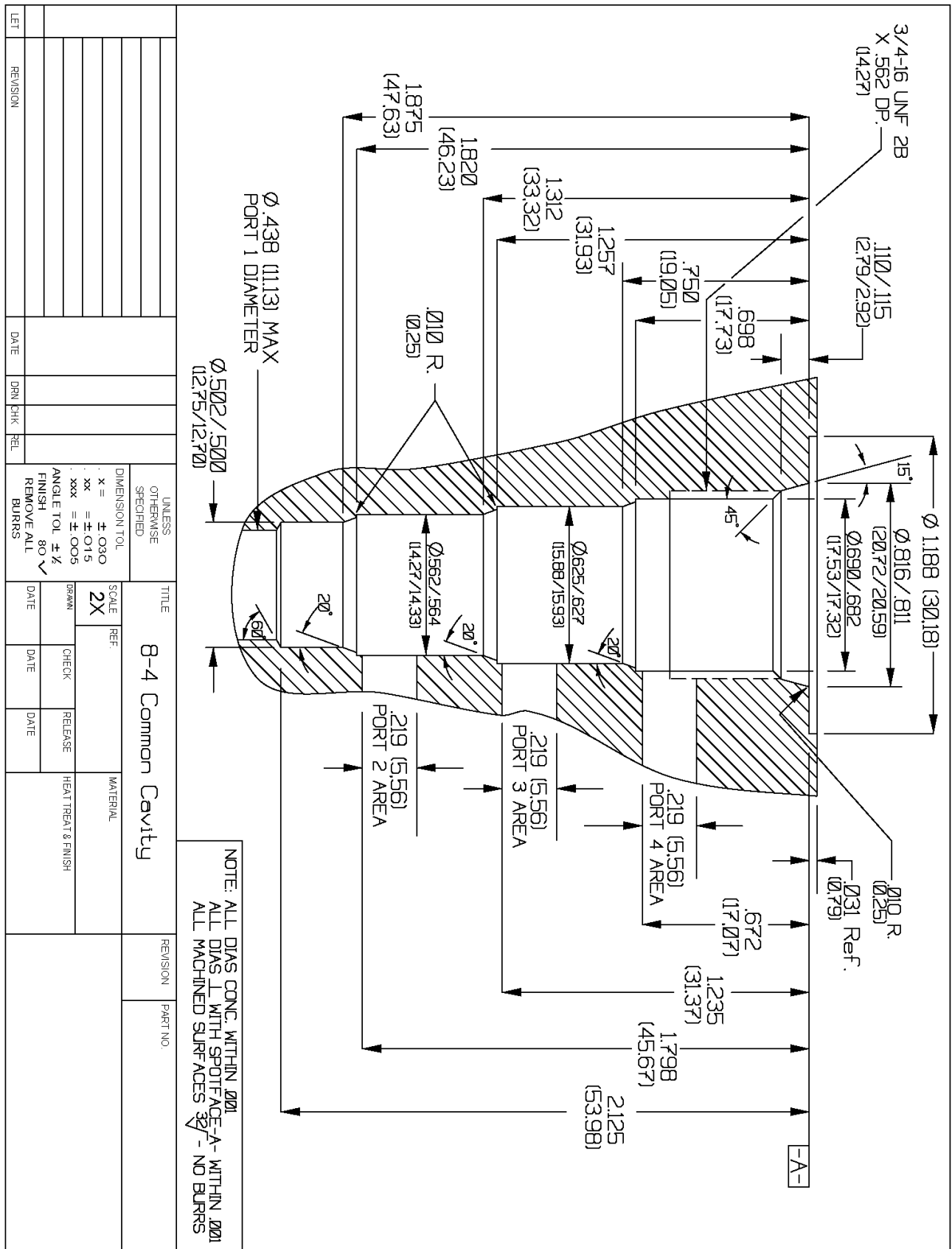
APPENDIX A

Engineering Drawings for Cavities

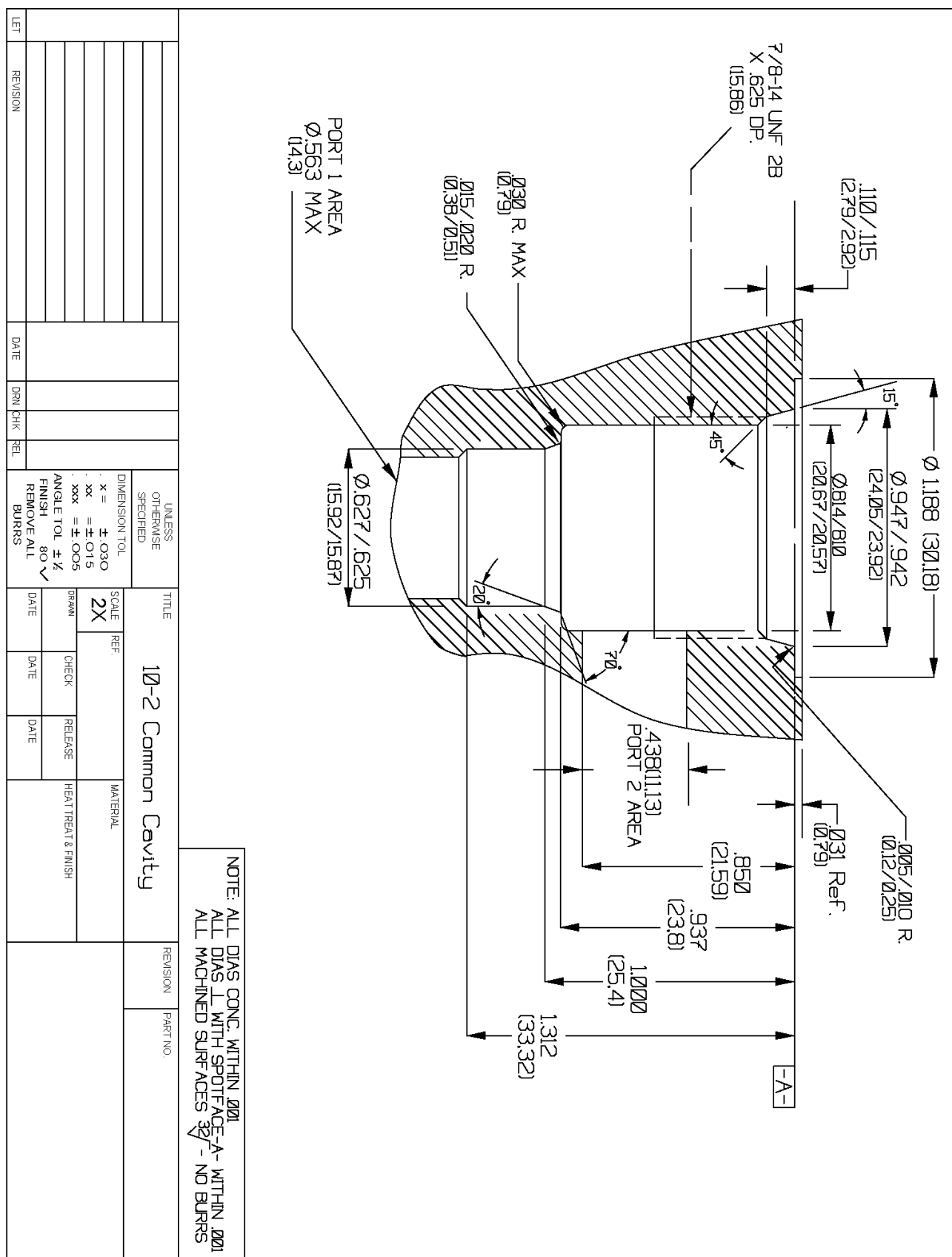


8-2 Common Cavity

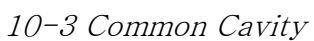




8-4 Common Cavity



10-2 Common Cavity





10-4 Common Cavity

