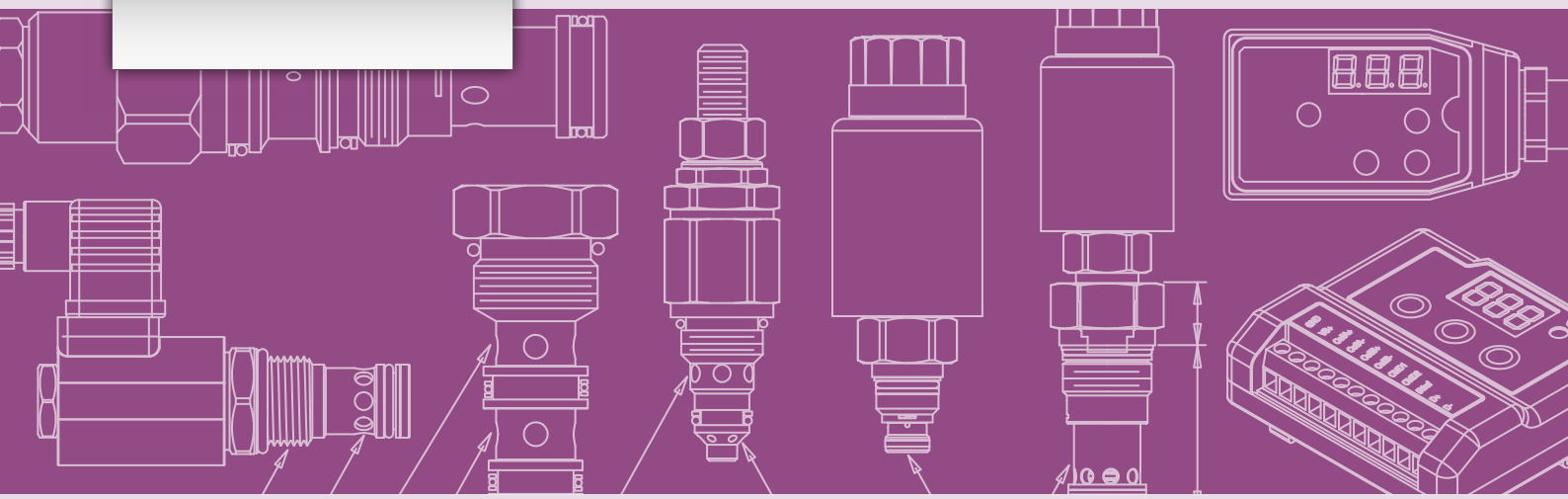
STEED
HYDRAULIC TECHNOLOGY



Cartridge Valve

Solenoid Operated
Pressure Control
Flow Control
Directional
Load Holding
Logic Element
Circuit Saver
Electronic Amplifier P-C Board
Filter
Cavity Plug



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Operating Recommendation

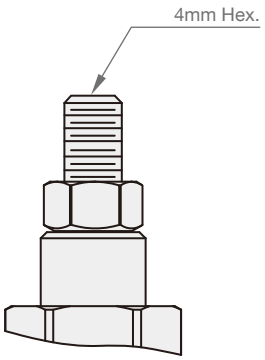
· **Fluid Viscosity Recommendations**
15 to 380 cSt

· **Fluid Cleanliness Recommendations**
Specified in accordance with ISO 4406:1999; 4μm / 6μm / 14μm

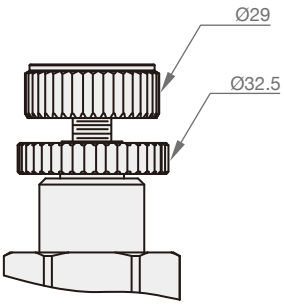
· **Fluid Temperature Recommendations**
Buna N (Nitrile) : -35°C to 90°C
Viton : -20°C to 120°C

CONTROL MANNER

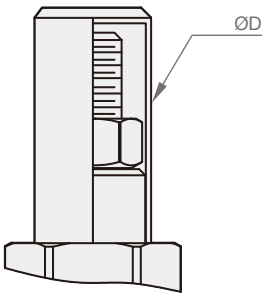
▸ **A : Adjustable Screw**



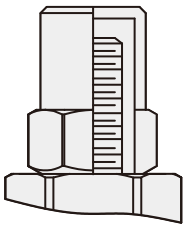
▸ **B : Control Knob**



▸ **C : Tamper Resistant Cover**



For Line Mount Type

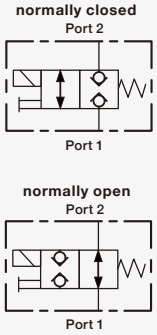
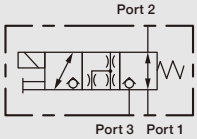
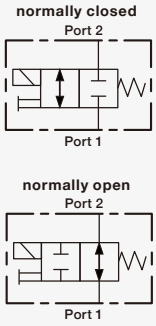
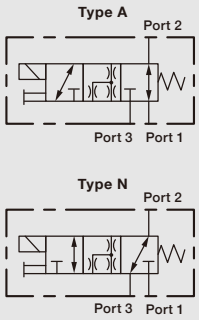


For SAE Cavity Type

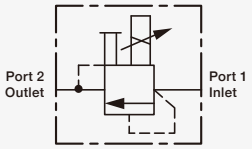
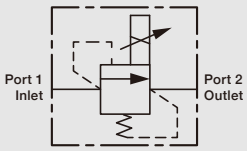
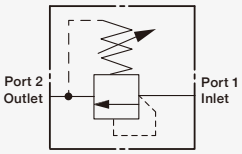
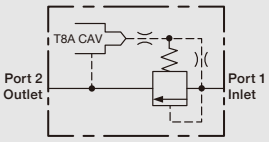
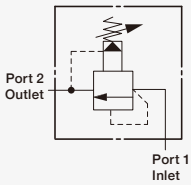
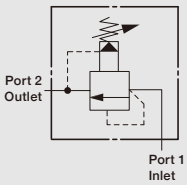
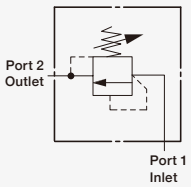
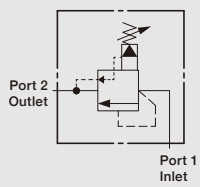
ØD	Size	Cavity
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Ø25	03	T2, T3, T5
Ø30	06	T16, T17
Ø40	08	T18, T19

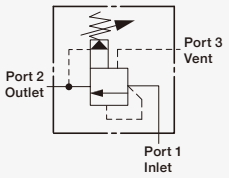
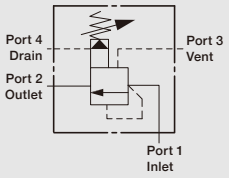
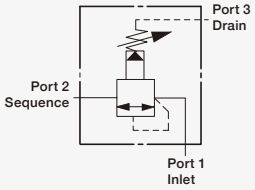
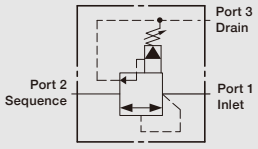
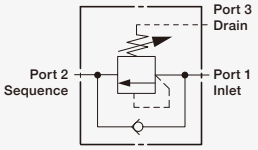
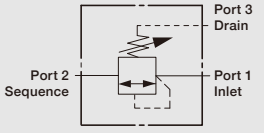
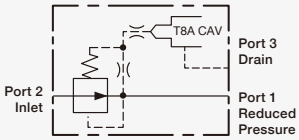
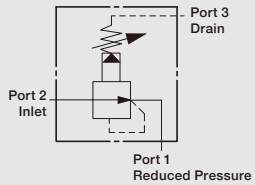
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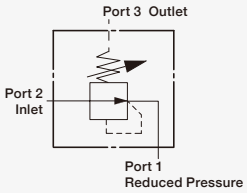
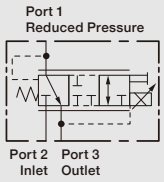
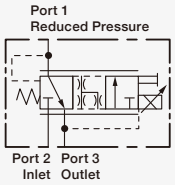
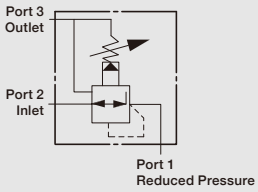
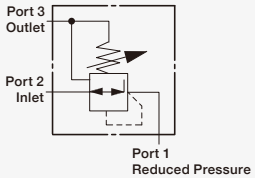
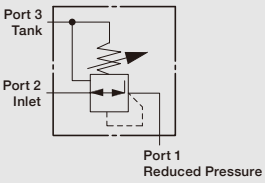
Solenoid Operated

Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner			
						A	B	U	M
24	Solenoid-Operated, 2-posion 2-way, Poppet Valve		SDTA-02	T13A	40				✓
26	Solenoid-Operated, 2-posion 3-way, 1 to 2, Shift to 2 to 3, Poppet Valve		SDWA-02	T11A	30				✓
28	Solenoid-Operated, 2-posion 2-way, Spool Valve		SDLA-02	T13A	45				✓
30	Solenoid-Operated, 2-posion 3-way, Spool Valve		SDMA-02	T11A	45				✓

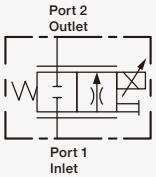
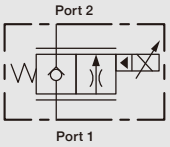
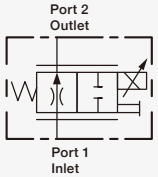
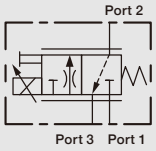
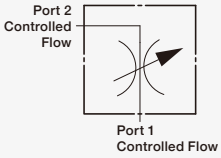
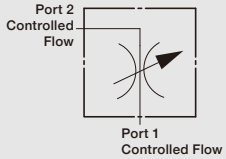
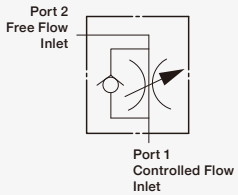
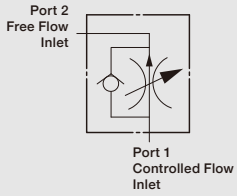
Pressure Control

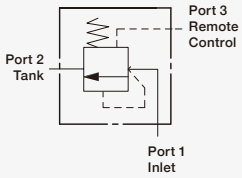
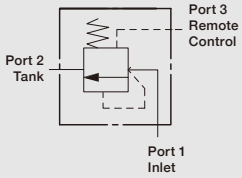
Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner			
						A	B	U	M
32	Pilot Stage, Proportional, Relief		SRBP-01	T8A	1				✓
34	Pilot Stage, Proportional, Inverse Relief		SRBN-01	T8A	1				✓
36	Pilot Stage, Direct-acting Relief Valve - Pilot Capacity		SRBC-02	T10A	1	✓	✓		
			SRBA-03	T3A	2	✓	✓		
38	Main Stage, Pilot Operated Relief with Integral T8A Cavity		SRPC-02-8	T10A	95				
			SRPC-03-8	T3A	200				
			SRPC-06-8	T16A	380				
			SRPC-08-8	T18A	760				
40	Pilot Operated Relief Valve		SRPC-02	T10A	95	✓	✓		
			SRPC-03	T3A	200	✓	✓		
			SRPC-06	T16A	380	✓	✓		
			SRPC-08	T18A	760	✓	✓		
42	Fast-acting, Pilot Operated Relief		SRPE-02	T10A	95	✓	✓		
			SRPE-03	T3A	200	✓	✓		
			SRPE-06	T16A	380	✓	✓		
			SRPE-08	T18A	760	✓	✓		
44	Direct-acting Relief Valve		SRDA-01	T162A	45	✓			
			SRDA-02	T10A	95	✓			
			SRDA-03	T3A	200	✓			
			SRDA-06	T16A	380	✓			
			SRDA-08	T18A	760	✓			
46	Kick-down, Pilot-operated, Balanced Piston Relief Valve		SRQB-02	T10A	95	✓	✓		
			SRQB-03	T3A	200	✓	✓		
			SRQB-06	T16A	380	✓	✓		
			SRQB-08	T18A	760	✓	✓		

Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner			
						A	B	U	M
48	Pilot Operated Relief Valve with Vent		SRVA-01	T163A	30	✓	✓		
			SRVA-02	T11A	60	✓	✓		
			SRVA-03	T2A	120	✓	✓		
			SRVA-06	T17A	240	✓	✓		
			SRVA-08	T19A	480	✓	✓		
50	Ventable, Pilot-operated, Balanced Piston Relief Valve with Drain to Port 4		SRVD-02	T21A	60	✓	✓		
			SRVD-03	T22A	120	✓	✓		
			SRVD-06	T23A	240	✓	✓		
			SRVD-08	T24A	480	✓	✓		
52	Pilot Operated Sequence Valve		SRSC-01	T163A	30	✓	✓		
			SRSC-02	T11A	60	✓	✓		
			SRSC-03	T2A	120	✓	✓		
			SRSC-06	T17A	240	✓	✓		
			SRSC-08	T19A	480	✓	✓		
54	Kick-down, Pilot-operated, Balanced Piston Sequence Valve		SSQB-02	T11A	60	✓	✓		
			SSQB-03	T2A	120	✓	✓		
			SSQB-06	T17A	240	✓	✓		
			SSQB-08	T19A	480	✓	✓		
56	Direct-acting Sequence Valve with Reverse Flow Check		SSCA-02	T11A	60	✓	✓		
			SSCA-03	T2A	120	✓	✓		
			SSCA-06	T17A	240	✓	✓		
			SSCA-08	T19A	480	✓	✓		
58	Direct-acting Sequence Valve without Reverse Flow Check		SSXA-02	T11A	60	✓	✓		
			SSXA-03	T2A	120	✓	✓		
60	Main Stage, Pilot Operated Reducing Valve with Integral T8A Cavity		SPBB-02-8	T11A	40				
			SPBB-03-8	T2A	80				
			SPBB-06-8	T17A	160				
			SPBB-08-8	T19A	320				
62	Pilot Operated Reducing Valve		SPBB-02	T11A	40	✓	✓		
			SPBB-03	T2A	80	✓	✓		
			SPBB-06	T17A	160	✓	✓		
			SPBB-08	T19A	320	✓	✓		

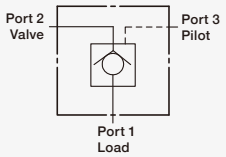
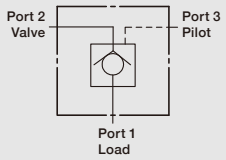
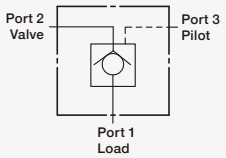
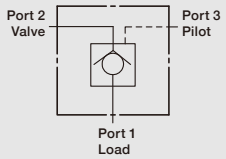
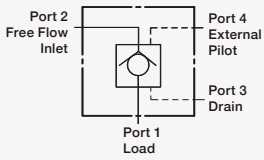
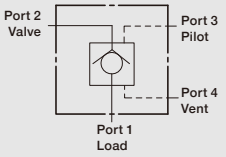
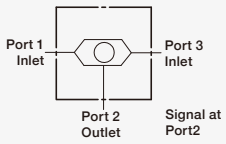
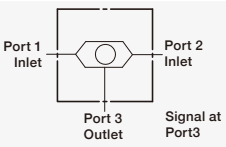
Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner			
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64	Direct-acting Pressure Reducing		SPRR-02	T11A	40	✓	✓		
			SPRR-03	T2A	80	✓	✓		
			SPRR-06	T17A	160	✓	✓		
			SPRR-08	T19A	320	✓	✓		
66	Proportional, Direct Acting Pressure Reducing / Relieving, Low Leakage		SPRP-02	T11A	20				✓
68	Proportional, Direct Acting Pressure Reducing / Relieving, Better Dynamic Response		SPRL-02	T11A	20				✓
70	Pilot Operated Reducing / Relieving Valve		SPPB-01	T163A	20	✓	✓		
			SPPB-02	T11A	40	✓	✓		
			SPPB-03	T2A	80	✓	✓		
			SPPB-06	T17A	160	✓	✓		
			SPPB-08	T19A	320	✓	✓		
72	Direct-acting Pressure Reducing / Relieving Valve		SPRB-01	T163A	20	✓	✓		
			SPRB-02	T11A	40	✓	✓		
			SPRB-03	T2A	80	✓	✓		
			SPRB-06	T17A	160	✓	✓		
			SPRB-08	T19A	320	✓	✓		
74	Direct-acting Pressure Reducing / Relieving Valve, Better Dynamic Response		SPRC-02	T11A	40	✓	✓		

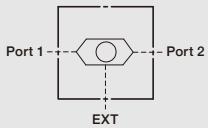
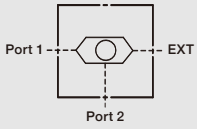
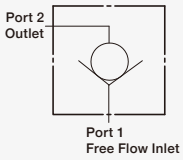
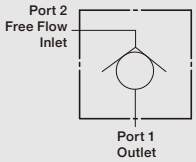
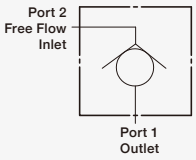
Flow Control

Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner			
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76	Proportional, Normally Closed, Flow Control Valve		SFPC-02	T13A	40				✓
78	Pilot-Operated, Normally Closed, Flow Control Valve with Check		SFPK-03	T5A	80				✓
			SFPK-06	T16A	160				✓
80	Proportional, Normally Open, Flow Control Valve		SFPH-02	T13A	28				✓
82	Proportional, 3-way, Flow Control Valve		SFMA-02	T11A	34				✓
			SFMB-02	T11A	23				✓
84	Fully Adjustable Needle Valve		SNFC-01	T162A	18.9	✓	✓		
			SNFC-02	T13A	25	✓	✓		
			SNFC-03	T5A	50	✓	✓		
			SNFC-06	T16A	100	✓	✓		
			SNFC-08	T18A	200	✓	✓		
86	Fully Adjustable and High Capacity Needle Valve		SNFD-02	T13A	80	✓	✓		
			SNFD-03	T5A	160	✓	✓		
			SNFD-06	T16A	320	✓	✓		
			SNFD-08	T18A	500	✓	✓		
88	Fully Adjustable Needle Valve (with Free Flow Check Valve)		SNCB-02	T13A	25	✓	✓		
			SNCB-03	T5A	50	✓	✓		
			SNCB-06	T16A	100	✓	✓		
			SNCB-08	T18A	200	✓	✓		
90	Pressure Compensated Fully Adjustable Flow Control Valve (with Free Flow Check Valve)		SFDA-02	T13A	23	✓	✓		
			SFDB-03	T5A	45	✓	✓		
			SFDA-06	T16A	95	✓	✓		
			SFDA-08	T18A	200	✓	✓		

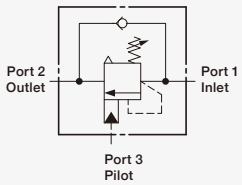
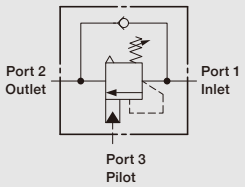
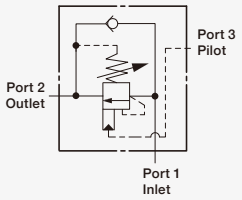
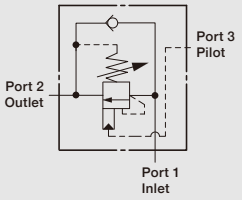
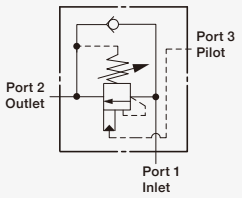
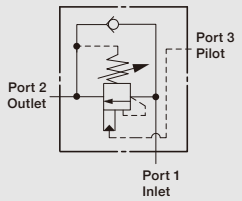
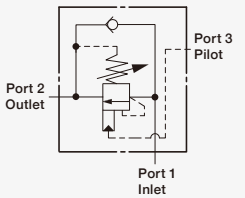
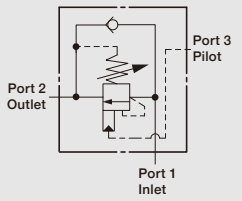
Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner			
						A	B	U	M
92	Normally Closed, Modulating Element with Pilot Source from Port 1		SLRA-02	T11A	60	✓		✓	
			SLRA-03	T2A	120	✓		✓	
			SLRA-06	T17A	240	✓		✓	
			SLRA-08	T19A	480	✓		✓	
94	Normally Closed, Modulating Element		SLRC-02	T11A	60	✓		✓	
			SLRC-03	T2A	120	✓		✓	
			SLRC-06	T17A	240	✓		✓	
			SLRC-08	T19A	480	✓		✓	

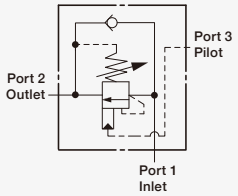
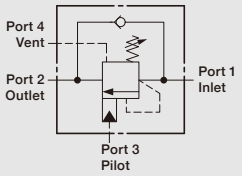
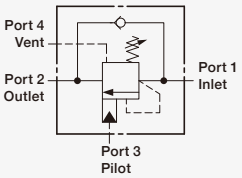
Directional

Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner				
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96	Pilot-to-Open Check Valve with Standard Pilot & POM Seat		SCKA-02	T11A	60	✓		✓		
			SCKA-03	T2A	120	✓		✓		
			SCKA-06	T17A	240	✓		✓		
			SCKA-08	T19A	480	✓		✓		
98	Pilot-to-Open Check Valve with Standard Pilot		SCKB-01	T163A	30	✓		✓		
			SCKB-02	T11A	60	✓		✓		
			SCKB-03	T2A	120	✓		✓		
			SCKB-06	T17A	240	✓		✓		
			SCKB-08	T19A	480	✓		✓		
100	Pilot-to-Open Check Valve with Sealed Pilot & POM Seat		SCKC-02	T11A	60	✓		✓		
			SCKC-03	T2A	120	✓		✓		
			SCKC-06	T17A	240	✓		✓		
			SCKC-08	T19A	480	✓		✓		
102	Pilot-to-Open Check Valve with Sealed Pilot		SCKD-02	T11A	60	✓		✓		
			SCKD-03	T2A	120	✓		✓		
			SCKD-06	T17A	240	✓		✓		
			SCKD-08	T19A	480	✓		✓		
104	Vented, Pilot-to-Open Check Valve with External Pilot Port		SCKF-02	T11A	60				✓	
			SCKF-03	T2A	120				✓	
			SCKF-06	T17A	240				✓	
			SCKF-08	T19A	480				✓	
106	Vented, Pilot-to-Open Check Valve		SCVV-02	T21A	60	✓		✓		
			SCVV-03	T22A	120	✓		✓		
			SCVV-06	T23A	240	✓		✓		
			SCVV-08	T24A	480	✓		✓		
108	Shuttle Valve		SCSX-01	T163A	6			✓		
			SCSD-02	T11A	10			✓		
			SCSB-02	T11A	10			✓		

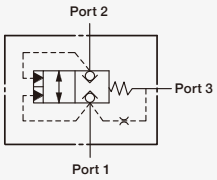
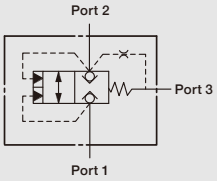
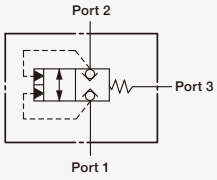
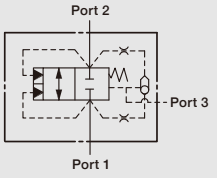
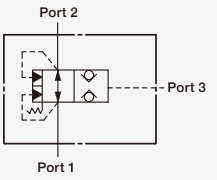
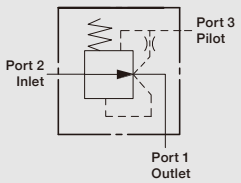
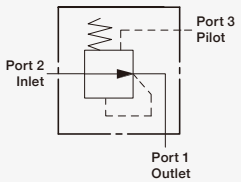
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110	Shuttle Valve, with External Port		SCSA-02	T13A	10					✓
			SCSC-02	T13A	10					✓
112	Check Valve, Free Flow Port1 to Port2		SCXA-00	T8A	20			✓		
			SCXA-01	T162A	40			✓		
			SCXA-02	T13A	80			✓		
			SCXA-03	T5A	160			✓		
			SCXA-06	T16A	320			✓		
			SCXA-08	T18A	640			✓		
114	Check Valve, Free Flow Port2 to Port1 with POM Seat		SCXB-02	T13A	60			✓		
			SCXB-03	T5A	120			✓		
			SCXB-06	T16A	240			✓		
			SCXB-08	T18A	480			✓		
116	Check Valve, Free Flow Port2 to Port1		SCXD-01	T162A	30			✓		
			SCXD-02	T13A	60			✓		
			SCXD-03	T5A	120			✓		
			SCXD-06	T16A	240			✓		
			SCXD-08	T18A	480			✓		

Load Holding

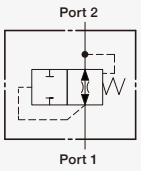
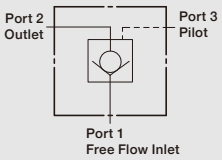
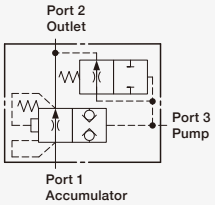
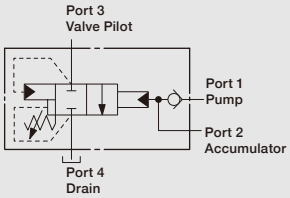
Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner		
						A	B	U
118	3:1 Pilot Ratio, Vented Counterbalance Valve - Atmospherically Referenced		SCAA-02	T11A	60	✓		
			SCAA-03	T2A	120	✓		
			SCAA-06	T17A	240	✓		
			SCAA-08	T19A	480	✓		
120	5:1 Pilot Ratio, Vented Counterbalance Valve - Atmospherically Referenced		SCAG-02	T11A	60	✓		
			SCAG-03	T2A	120	✓		
			SCAG-06	T17A	240	✓		
			SCAG-08	T19A	480	✓		
122	Counterbalance 3:1 Pilot Ratio External Pilot Non-Vented Valve		SCBA-02	T11A	60	✓		
			SCBA-03	T2A	120	✓		
			SCBA-06	T17A	240	✓		
			SCBA-08	T19A	480	✓		
124	Counterbalance 4.5:1 Pilot Ratio External Pilot Non-Vented Valve		SCBG-02	T11A	60	✓		
			SCBG-03	T2A	120	✓		
			SCBG-06	T17A	240	✓		
			SCBG-08	T19A	480	✓		
126	Counterbalance 10:1 Pilot Ratio External Pilot Non-Vented Valve		SCBH-02	T11A	60	✓		
			SCBH-03	T2A	120	✓		
			SCBH-06	T17A	240	✓		
			SCBH-08	T19A	480	✓		
128	3:1 Pilot Ratio, Semi-restrictive Counterbalance Valve		SCBC-02	T11A	40	✓		
			SCBC-03	T2A	80	✓		
			SCBC-06	T17A	160	✓		
130	4.5:1 Pilot Ratio, Semi-restrictive Counterbalance Valve		SCBD-02	T11A	40	✓		
			SCBD-03	T2A	80	✓		
			SCBD-06	T17A	160	✓		
132	3:1 Pilot Ratio, Restrictive Counterbalance Valve		SCBE-02	T11A	15	✓		
			SCBE-03	T2A	30	✓		
			SCBE-06	T17A	60	✓		
			SCBE-08	T19A	80	✓		

Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner		
						A	B	U
134	4.5:1 Pilot Ratio, Restrictive Counterbalance Valve		SCBF-02	T11A	15	✓		
			SCBF-03	T2A	30	✓		
			SCBF-06	T17A	60	✓		
			SCBF-08	T19A	80	✓		
136	3:1 Pilot Ratio, Vented, Counterbalance Valve		SCWA-02	T21A	60	✓		
			SCWA-03	T22A	120	✓		
			SCWA-06	T23A	240	✓		
			SCWA-08	T24A	480	✓		
138	5:1 Pilot Ratio, Vented, Counterbalance Valve		SCWG-02	T21A	60	✓		
			SCWG-03	T22A	120	✓		
			SCWG-06	T23A	240	✓		
			SCWG-08	T24A	480	✓		

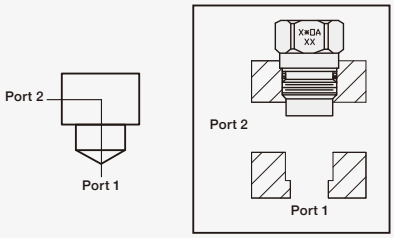
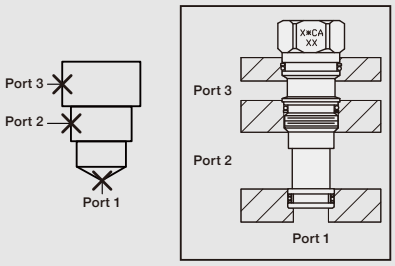
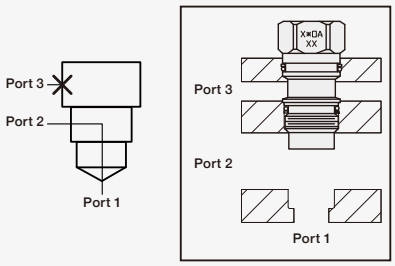
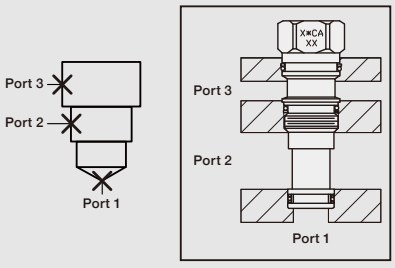
Logic Element

Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner		
						A	B	U
140	Logic Elements (Spring biased closed, pilot source from port 1)		SLOA-02	T11A	80	✓		✓
			SLOA-03	T2A	160	✓		✓
			SLOA-06	T17A	320	✓		✓
			SLOA-08	T19A	640	✓		✓
140	Logic Elements (Spring biased closed, pilot source from port 2)		SLOB-02	T11A	80	✓		✓
			SLOB-03	T2A	160	✓		✓
			SLOB-06	T17A	320	✓		✓
			SLOB-08	T19A	640	✓		✓
140	Logic Elements (Spring biased closed, pilot source from port 3)		SLOC-02	T11A	80	✓		✓
			SLOC-03	T2A	160	✓		✓
			SLOC-06	T17A	320	✓		✓
			SLOC-08	T19A	640	✓		✓
140	Logic Elements (Spring biased closed, higher of port 1 or 2 pilot source)		SLOD-02	T11A	80	✓		✓
			SLOD-03	T2A	160	✓		✓
			SLOD-06	T17A	320	✓		✓
			SLOD-08	T19A	640	✓		✓
140	Logic Elements (Spring biased open, pilot source from port 3)		SLOO-02	T11A	80	✓		✓
			SLOO-03	T2A	160	✓		✓
			SLOO-06	T17A	320	✓		✓
			SLOO-08	T19A	640	✓		✓
142	Normally Open, Logic Madulating, Internal Pilot		SLPA-02	T11A	60	✓		✓
			SLPA-03	T2A	120	✓		✓
			SLPA-06	T17A	240	✓		✓
			SLPA-08	T19A	480	✓		✓
142	Normally Open, Logic Madulating, External Pilot		SLPC-02	T11A	60	✓		✓
			SLPC-03	T2A	120	✓		✓
			SLPC-06	T17A	240	✓		✓
			SLPC-08	T19A	480	✓		✓

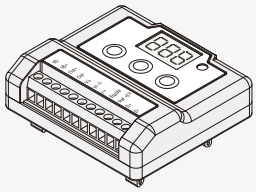
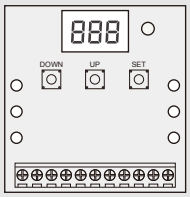
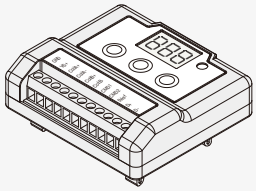
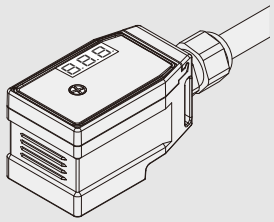
Circuit Saver

Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner		
						A	B	U
144	Fixed Orifice, Flow Fuse Valve		SFQA-02	T13A	23			✓
			SFQA-03	T5A	60			✓
			SFQA-06	T16A	95			✓
			SFQA-08	T18A	200			✓
146	1.8:1 Pilot Ratio, Pilot to Close Check Valve		SCOA-01	T163A	40			✓
			SCOA-02	T11A	80			✓
			SCOA-03	T2A	160			✓
			SCOA-06	T17A	320			✓
			SCOA-08	T19A	640			✓
148	120:1 Pilot Ratio, Pilot to Close Check Valve		SCOO-03	T2A	4			✓
150	30%, Accumulator Sense, Pump Unload Valve with Check - Pilot Capacity		SQCA-02	T21A	60	✓	✓	
			SQCB-02	T21A	60	✓	✓	
			SQCC-02	T21A	60	✓	✓	

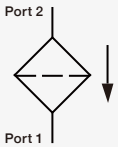
Cavity Plug

Page No.	Function	Symbols	Model No.	Cavity	Thread
152	2 Holes External Port Blocked Cavity Plug		X1OA2	T162A	M16 P15
			X2OA2	T10A	M20 P1.5
			X2OA2	T13A	M20 P1.5
			X3OA2	T3A	1"-14UNS-2B
			X3OA2	T5A	1"-14UNS-2B
			X6OA2	T16A	M36 P2
			X8OA2	T18A	M48 P2
153	2 Holes All Ports Blocked Cavity Plug		X1CA2	T162A	M16 P15
			X2CA2	T10A	M20 P1.5
			X2CA2	T13A	M20 P1.5
			X3CA2	T3A	1"-14UNS-2B
			X3CA2	T5A	1"-14UNS-2B
			X6CA2	T16A	M36 P2
			X8CA2	T18A	M48 P2
154	Port 1 to 2 Open, Port 3 Blocked Cavity Plug		X1OA3	T163A	M16 P1.5
			X2OA3	T11A	M20 P1.5
			X3OA3	T2A	1"-14UNS-2B
			X6OA3	T17A	M36 P2
			X8OA3	T19A	M48 P2
155	3 Holes All Ports Blocked Cavity Plug		X1CA3	T163A	M16 P1.5
			X2CA3	T13A	M20 P1.5
			X3CA3	T2A	1"-14UNS-2B
			X6CA3	T17A	M36 P2
			X8CA3	T19A	M48 P2

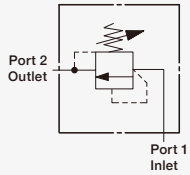
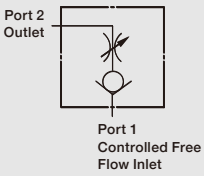
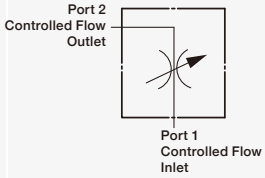
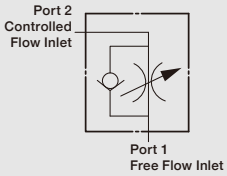
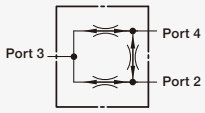
Electronic Amplifier P-C Board

Page No.	Function	Appearance	Model No.	Type
156	Digital Proportional Controller - Case		SY-DPCA-C-1	Case with DIN-35 rail clamps
158	Digital Proportional Controller - PCB Only		SY-DPCA-P-1	PCB only
160	Dual Output Proportional Controller		SY-DPCA-C-2	Case with DIN-35 rail clamps
162	Digital Proportional Controller - DIN Plug		SY-DPCA-D-P9-1	DIN43650A plug

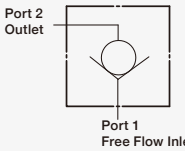
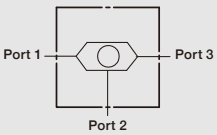
Filter

Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner		
						L	K	X
164	Filter		FLA-02	T13A	37.9			✓
			FLA-03	T5A	75.7			✓
			FLA-06	T16A	151.4			✓
			FLA-08	T18A	302.8			✓

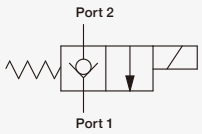
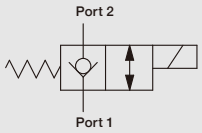
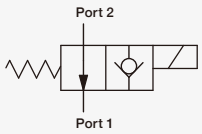
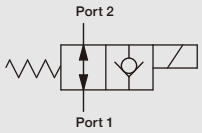
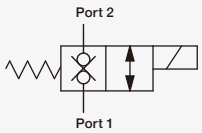
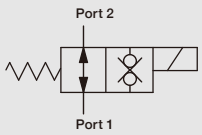
SAE Cavity Cartridge Valve > Flow Control

Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner			
						A	B	U	C
168	Noiseless Direct Acting Diagonal Area Relief Valve		MH-082	T082	25	✓	✓		✓
			MH-092	T092	45	✓	✓		✓
			MH-102	T102	45	✓	✓		✓
			MH-122	T122	85	✓	✓		✓
170	Check with Manual Flow Adjustment		CN-082	T082	30	✓	✓		
			CN-102	T102	50	✓	✓		
			CN-122	T122	80	✓	✓		
			CN-162	T162	150	✓	✓		
172	Fully Adjustable Needle		NV-082	T082	30	✓	✓		
			NV-102	T102	50	✓	✓		
			NV-122	T122	80	✓	✓		
			NV-162	T162	150	✓	✓		
174	Fully Adjustable Needle with Free Flow Check		NC-082	T082	30	✓	✓		
			NC-102	T102	50	✓	✓		
			NC-122	T122	80	✓	✓		
			NC-162	T162	150	✓	✓		
176	Flow Divider (Flow Ratio: 1:1)		CP-104	T104	45			✓	
			CP-124	T124	75			✓	
			CP-164	T164	150			✓	

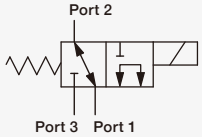
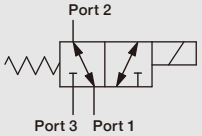
SAE Cavity Cartridge Valve > Directional

Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner		
						A	B	U
178	Check Free Flow 1-2, , Poppet Type		CV-082	T082	30			✓
			CV-102	T102	50			✓
			CV-122	T122	80			✓
			CV-162	T162	150			✓
180	Shuttle Valve		LS-083	T083	15			✓
			LS-103	T103	30			✓

SAE Cavity Cartridge Valve > Directional > On/Off Valves 2 Way Valve

Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner		
						A	B	U
182	Normally Closed Single Check		HS-2A	T082	28			✓
			JS-2A	T102	50			✓
			LS-2A	T122	100			✓
			PS-2A	T162	150			✓
184	Normally Closed Single Check Reverse Flow		HS-2B	T082	28			✓
			JS-2B	T102	50			✓
			LS-2B	T122	100			✓
			PS-2B	T162	150			✓
186	Normally Open Single Check		HS-2C	T082	28			✓
			JS-2C	T102	50			✓
			LS-2C	T122	100			✓
			PS-2C	T162	150			✓
188	Normally Open Single Check Reverse Flow		HS-2D	T082	28			✓
			JS-2D	T102	50			✓
			LS-2D	T122	100			✓
			PS-2D	T162	150			✓
190	Normally Closed Double Check		HS-2I	T082	28			✓
			JS-2I	T102	50			✓
			LS-2I	T122	100			✓
			PS-2I	T162	150			✓
192	Normally Open Double Check		HS-2J	T082	28			✓
			JS-2J	T102	50			✓
			LS-2J	T122	100			✓
			PS-2J	T162	150			✓

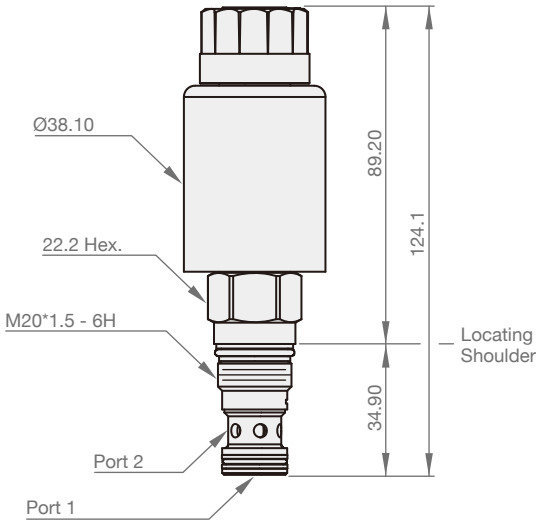
SAE Cavity Cartridge Valve > Directional > On/Off Valves 3 Way Valve

Page No.	Function	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner		
						A	B	U
194	3 Way, 2 Position		HS-3A	T082	15			✓
			JS-3A	T102				✓
196	3 Way, 2 Position		HS-3X	T082	13			✓
			JS-3X	T102	38			✓

SDTA

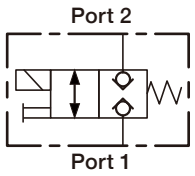
DIMENSION

(UNIT : mm)

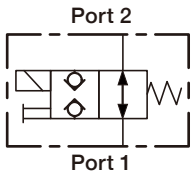


SYMBOLS

normally closed



normally open



ORDER CODES

SDTA	-	02	-	T13A	-	C	N	M	-	DG	24
①		②		③		④	⑤	⑥		⑦	⑧

①	Model Name	SDTA	
②	Capacity (l/min)	02	40
③	Cavity	T13A	
④	Type	C	normally closed
		H	normally open
⑤	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
⑥	Control Manner	M	manual override
⑦	Connector (coil)	DG	ISO/DIN43650
		DR	Deutsch DT04-2P
⑧	Voltage (coil)	12	12 VDC
		24	24 VDC

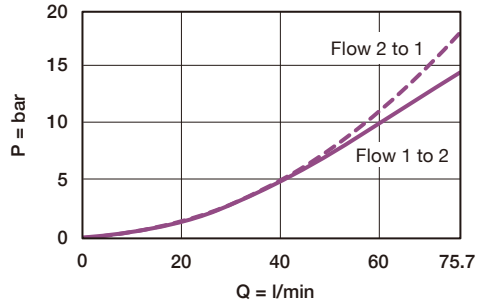
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Leakage	Installation Torque (Nm)
SDTA-02	T13A	40	350	less than 0.7 cc/min	45/50

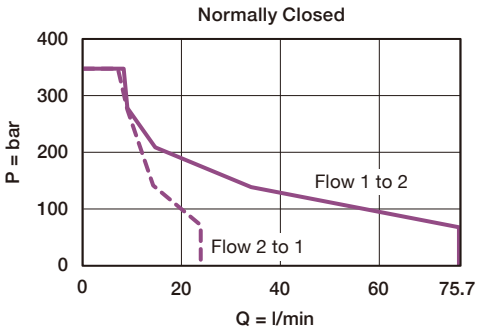
Model	Max. Current	Power Consumption (watts)	Body's Weight (kg)	Coil's Weight (kg)
SDTA-02	1150mA@12VDC 590mA@24VDC	22	0.24	0.23

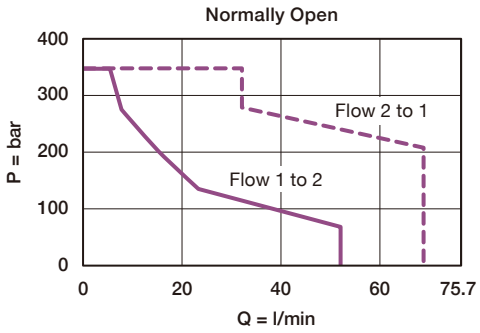
PERFORMANCE CURVES

▸ Pressure Differential vs. Flow



▸ Valve Performance Limits @ 10% Undervoltage & Stabilized Coil Temperature

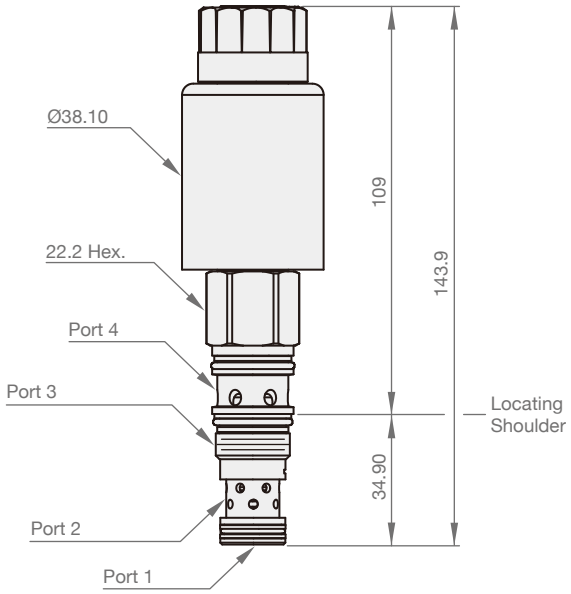




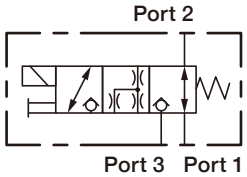
SDWA

DIMENSION

(UNIT : mm)



SYMBOLS



ORDER CODES

SDWA	-	02	-	T11A	-	A	N	M	-	DR	24
1		2		3		4	5	6		7	8

1	Model Name	SDWA	
2	Capacity (l/min)	02	30
3	Cavity	T11A	
4	Type	A	1-2 normally open, 2-3 closed
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	M	manual override
7	Connector (coil)	DG	ISO/DIN43650
		DR	Deutsch DT04-2P
8	Voltage (coil)	12	12 VDC
		24	24 VDC

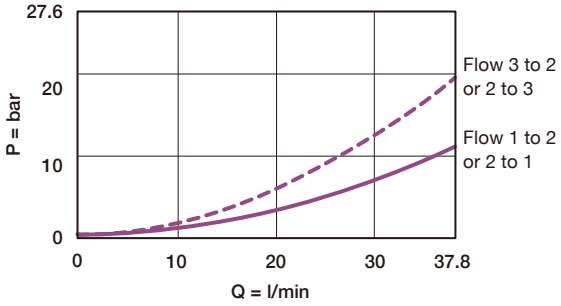
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Leakage	Installation Torque (Nm)
SDWA-02	T11A	30	350	less than 0.7 cc/min	45/50

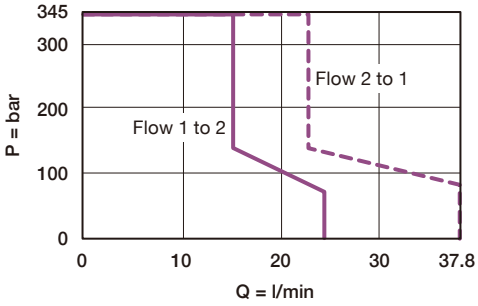
Model	Max. Current	Power Consumption (watts)	Body's Weight (kg)	Coil's Weight (kg)
SDWA-02	1150mA@12VDC 590mA@24VDC	22	0.28	0.23

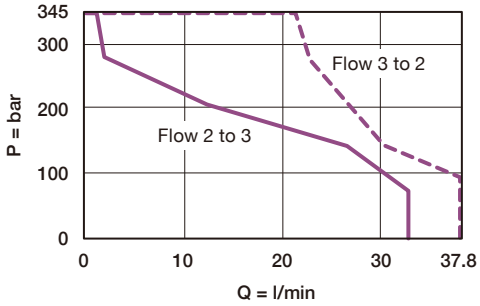
PERFORMANCE CURVES

▸ Pressure Differential vs. Flow



▸ Valve Performance Limits @ 10% Undervoltage & Stabilized Coil Temperature

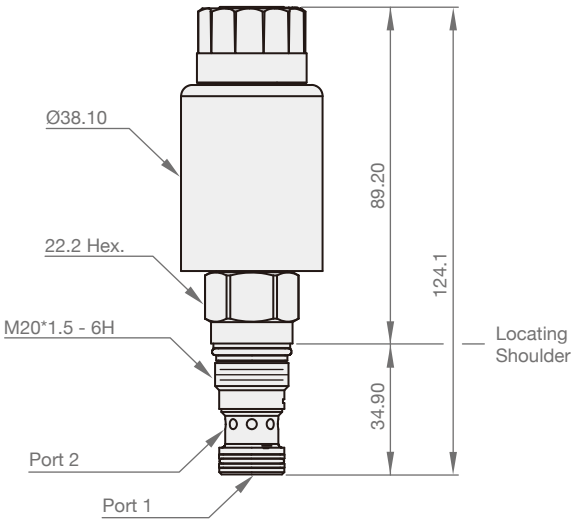




SDLA

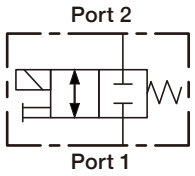
DIMENSION

(UNIT : mm)

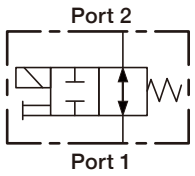


SYMBOLS

normally closed



normally open



ORDER CODES

SDLA	-	02	-	T13A	-	C	N	M	-	DG	24
1		2		3		4	5	6		7	8

1	Model Name	SDLA	
2	Capacity (l/min)	02	45
3	Cavity	T13A	
4	Type	C	normally closed
		H	normally open
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	M	manual override
7	Connector (coil)	DG	ISO/DIN43650
		DR	Deutsch DT04-2P
8	Voltage (coil)	12	12 VDC
		24	24 VDC

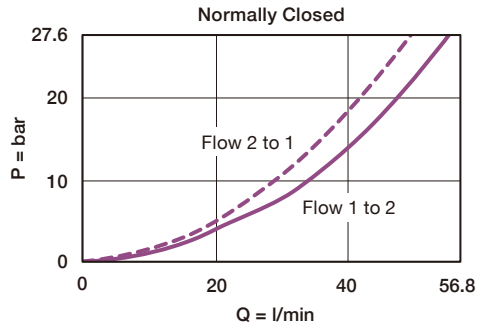
MODEL SPEC.

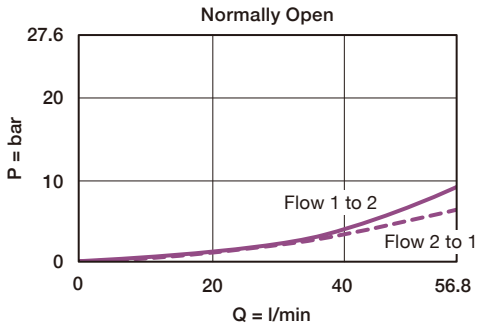
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Leakage	Installation Torque (Nm)
SDLA-02	T13A	45	350	less than 100 cc/min	40/50

Model	Max. Current	Power Consumption (watts)	Body's Weight (kg)	Coil's Weight (kg)
SDLA-02	1150mA@12VDC 590mA@24VDC	22	0.24	0.23

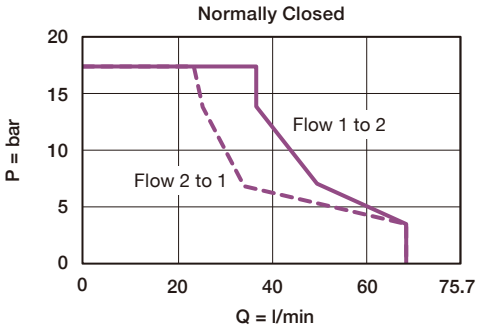
PERFORMANCE CURVES

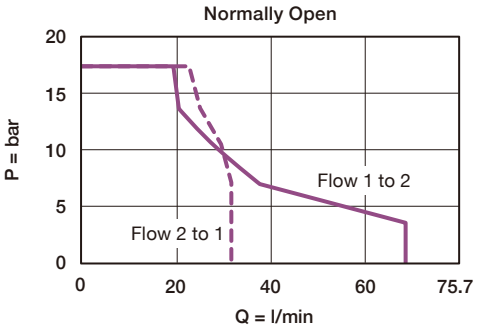
▸ Typical Pressure Differential vs. Folw





▸ Valve Performance Limits @ 10% Undervoltage & Stabilized Coil Temperature

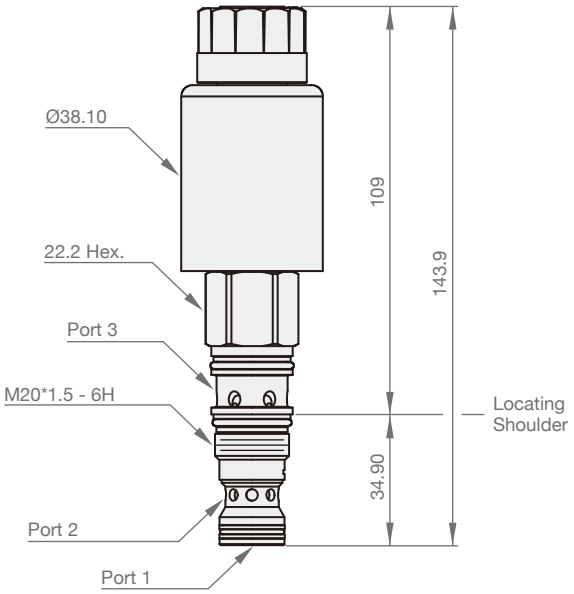




SDMA

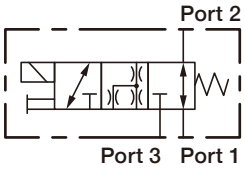
DIMENSION

(UNIT : mm)

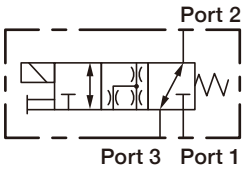


SYMBOLS

Type A



Type N



ORDER CODES

SDMA - 02 - T11A - A N M - DR 24

1 2 3 4 5 6 7 8

1	Model Name	SDMA	
2	Capacity (l/min)	02	45
3	Cavity	T11A	
4	Type	A	1-2 normally open, 2-3 closed
		N	2-3 normally open, 1-2 closed
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	M	manual override
7	Connector (coil)	DG	ISO/DIN43650
		DR	Deutsch DT04-2P
8	Voltage (coil)	12	12 VDC
		24	24 VDC

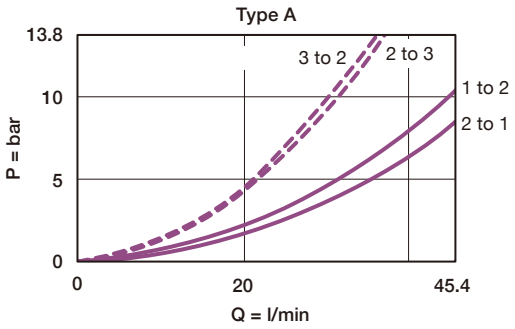
MODEL SPEC.

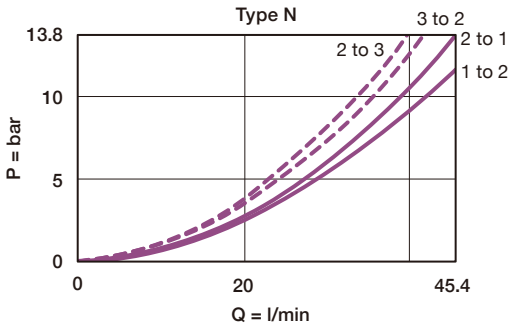
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Leakage	Installation Torque (Nm)
SDMA-02	T11A	45	350	less than 100 cc/min	40/50

Model	Max. Current	Power Consumption (watts)	Body's Weight (kg)	Coil's Weight (kg)
SDMA-02	1150mA@12VDC 590mA@24VDC	22	0.28	0.23

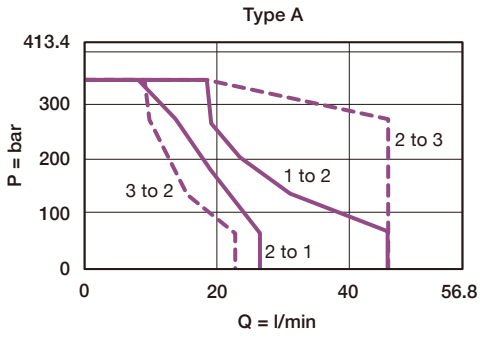
PERFORMANCE CURVES

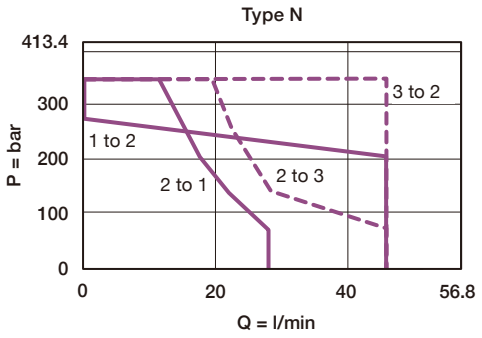
▸ **Typical Pressure Differential vs. Folw**





▸ **Valve Performance Limits @ 10% Undervoltage & Stabilized Coil Temperature**

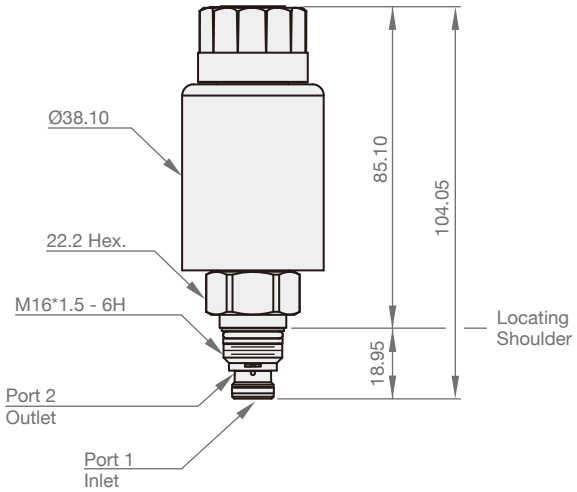




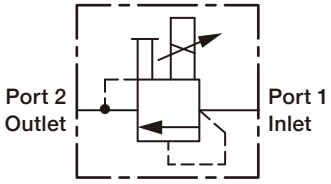
SRBP

DIMENSION

(UNIT : mm)



SYMBOLS



ORDER CODES

SRBP - 01 - T8A - A N M - DG 24

1	Model Name	SRBP	
2	Capacity (l/min)	01	1
3	Cavity	T8A	
4	Adjustment Range (bar)	A	20 ~ 210
		B	10.5 ~ 105
		D	3.5 ~ 50
		W	35 ~ 350
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	M	manual override
7	Connector (coil)	DG	ISO/DIN43650
		DR	Deutsch DT04-2P
8	Voltage (coil)	12	12 VDC
		24	24 VDC

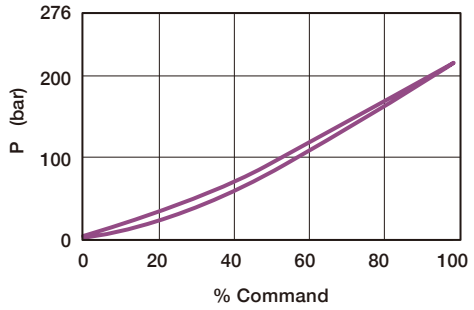
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Leakage	Installation Torque (Nm)
SRBP-01	T8A	1	350	less than 25 cc/min	9/10

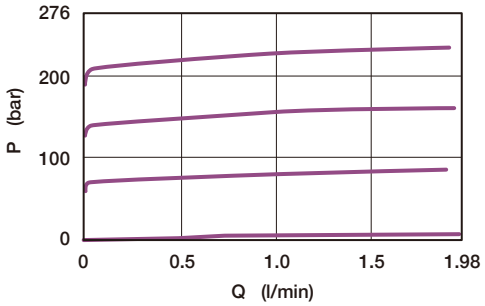
Model	Hysteresis	Max. Current	Power Consumption (watts)	Body's Weight (kg)	Coil's Weight (kg)
SRBP-01	5%	1150mA@12VDC 590mA@24VDC	22	0.26	0.23

PERFORMANCE CURVES

▸ **Pressure vs. Command (Range A)**



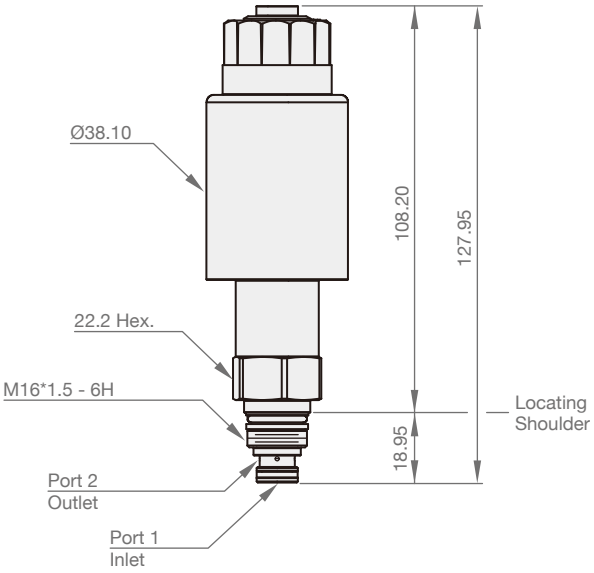
▸ **Typical Pressure Rise**



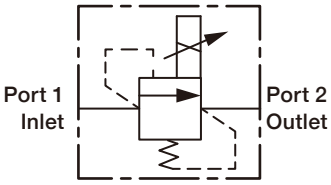
SRBN

DIMENSION

(UNIT : mm)



SYMBOLS



ORDER CODES

SRBN - 01 - T8A - A N M - DR 24

1	Model Name	SRBN	
2	Capacity (l/min)	01	1
3	Cavity	T8A	
4	Adjustment Range (bar)	A	105 ~ 210
		B	55 ~ 105
		D	20 ~ 55
		W	210 ~ 350
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	M	manual override
7	Connector (coil)	DG	ISO/DIN43650
		DR	Deutsch DT04-2P
8	Voltage (coil)	12	12 VDC
		24	24 VDC

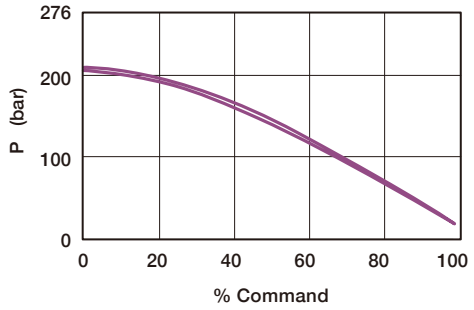
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Leakage	Installation Torque (Nm)
SRBN-01	T8A	1	350	less than 25 cc/min	9/10

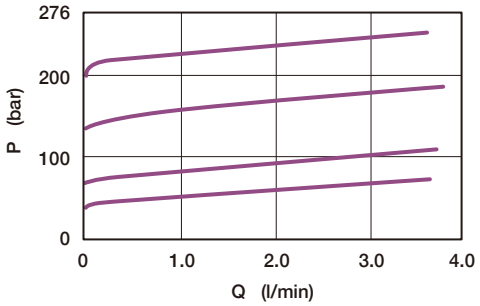
Model	Hysteresis	Max. Current	Power Consumption (watts)	Body's Weight (kg)	Coil's Weight (kg)
SRBN-01	5%	1150mA@12VDC 590mA@24VDC	22	0.45	0.23

PERFORMANCE CURVES

▸ **Pressure vs. Command (Range A)**



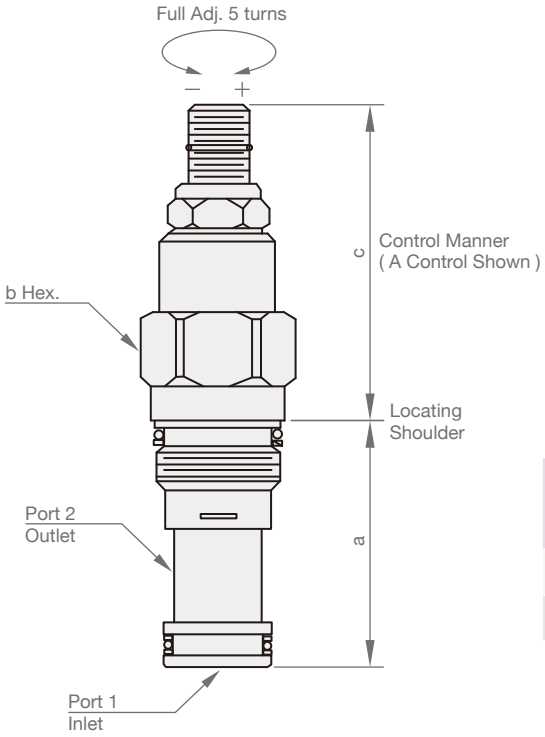
▸ **Pressure Differential vs. Flow (Range A)**



SRBC, SRBA

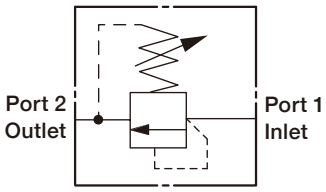
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SRBC-02	39.7	22.2	51	58
SRBA-03	47.8	28.6	54	61

SYMBOLS



ORDER CODES

SRB | C-02 - T10A - A | N | A

1 2 3 4 5 6

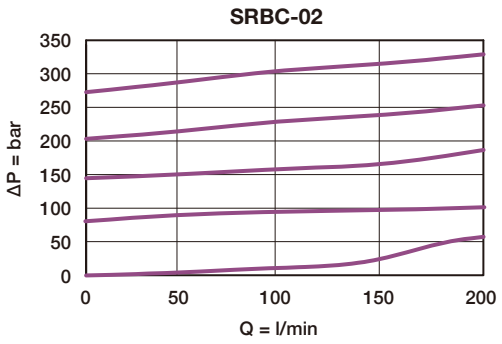
1	Model Name	SRB	
2	Capacity & Valve Size	C-02	1 l/min
		A-03	2 l/min
3	Cavity	T10A, T3A	
4	Adjustable Range	A	7 ~ 210 bar
		B	3.5 ~ 105 bar
		C	10.5 ~ 400 bar
		N	5 ~ 55 bar
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw
		B	control knob

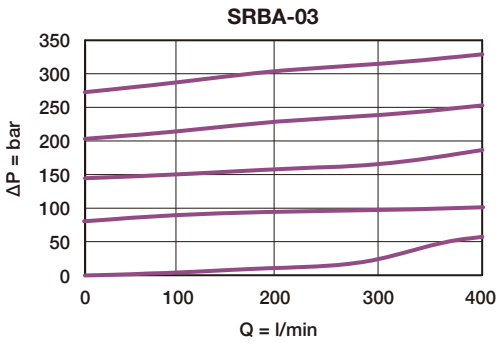
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SRBC-02	T10A	1	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.15
SRBA-03	T3A	2	350	60/70		0.25

PERFORMANCE CURVES

▸ **Typical Pressure Rise**

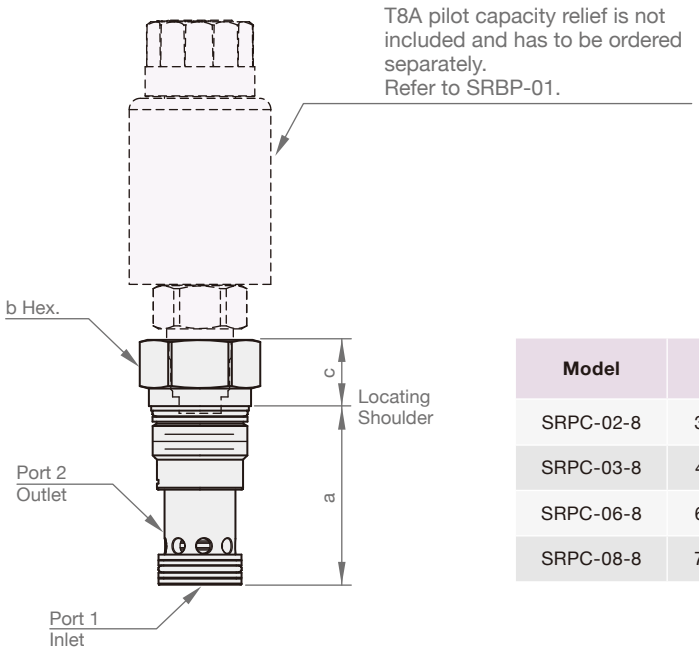




SRPC8

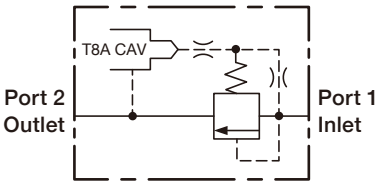
DIMENSION

(UNIT : mm)



Model	a	b	c
SRPC-02-8	39.7	22.2	19
SRPC-03-8	47.8	28.6	17.5
SRPC-06-8	61.9	31.8	24.6
SRPC-08-8	79.4	41.3	30.2

SYMBOLS



ORDER CODES

SRPC - 03 - T3A - W N 8

1	Model Name	SRPC	
2	Valve Size	02, 03, 06, 08	
3	Cavity	T10A, T3A, T16A, T18A	
4	Cracking Pressure (bar)	W	7
		D	1.7
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	8	integral cavity T8A

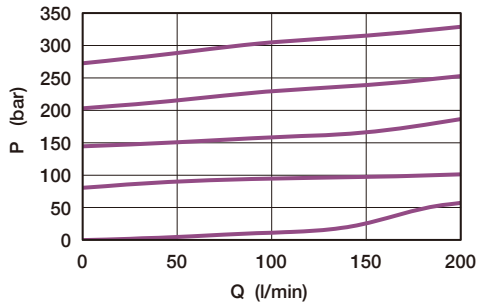
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SRPC-02-8	T10A	95	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.09
SRPC-03-8	T3A	200	350	60/70		0.17
SRPC-06-8	T16A	380	350	200/215		0.43
SRPC-08-8	T18A	760	350	465/500		0.59

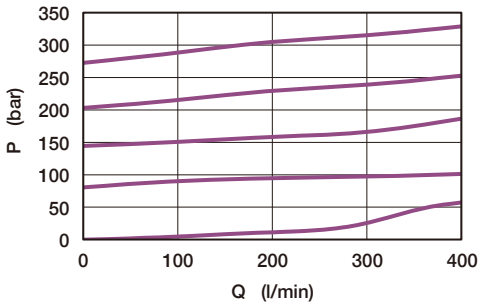
PERFORMANCE CURVES

▸ **Typical Pressure Rise**

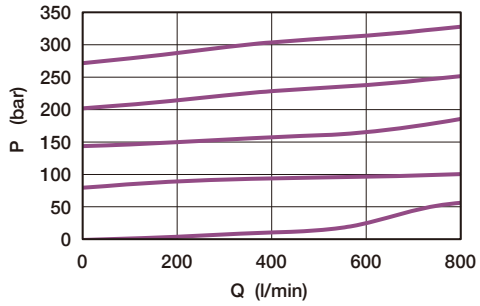
SRPC-02-8



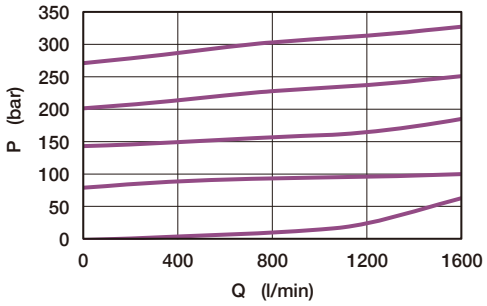
SRPC-03-8



SRPC-06-8



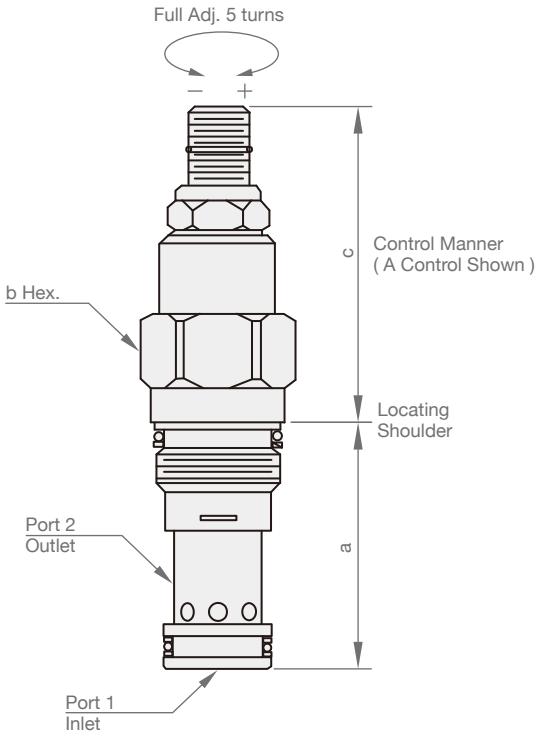
SRPC-08-8



SRPC

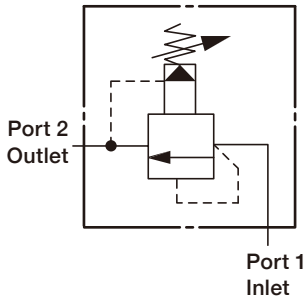
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SRPC-02	39.7	22.2	51	58
SRPC-03	47.8	28.6	54	61
SRPC-06	61.9	31.8	62	69
SRPC-08	79.4	41.3	71	78

SYMBOLS



ORDER CODES

SRPC - **02** - **T10A** - **A** **N** **A**

(1) (2) (3) (4) (5) (6)

(1)	Model Name	SRPC	
(2)	Valve Size	02, 03, 06, 08	
(3)	Cavity	T10A, T3A, T16A, T18A	
(4)	Adjustable Range	A	7 ~ 210 bar
		B	3.5 ~ 105 bar
		C	10.5 ~ 400 bar
		N	5 ~ 55 bar
		W	10.5~315 bar
(5)	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
(6)	Control Manner	A	adjustable screw
		B	control knob

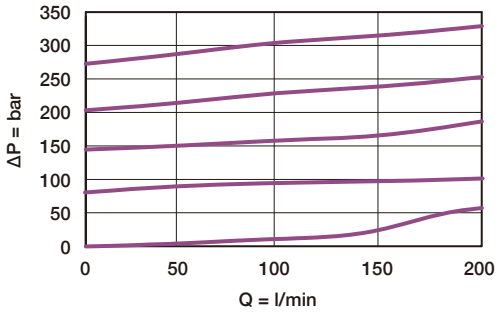
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SRPC-02	T10A	95	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.15
SRPC-03	T3A	200	350	60/70		0.25
SRPC-06	T16A	380	350	200/215		0.55
SRPC-08	T18A	760	350	465/500		1.17

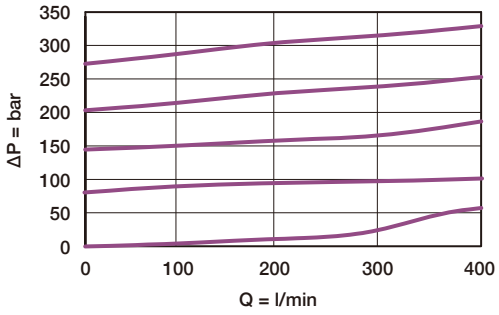
PERFORMANCE CURVES

▸ **Typical Pressure Rise**

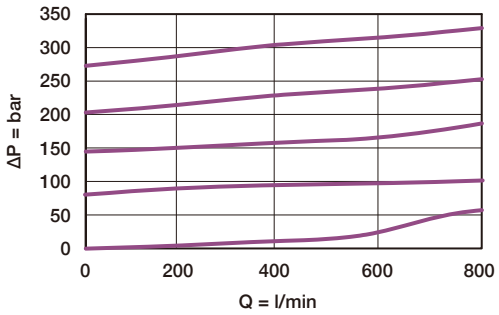
SRPC-02



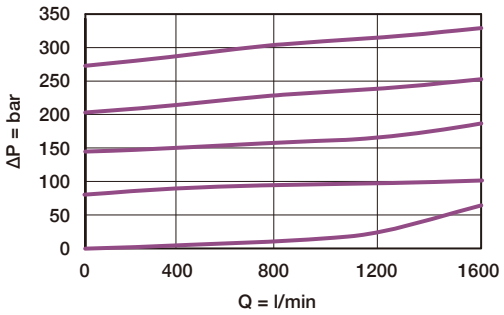
SRPC-03



SRPC-06



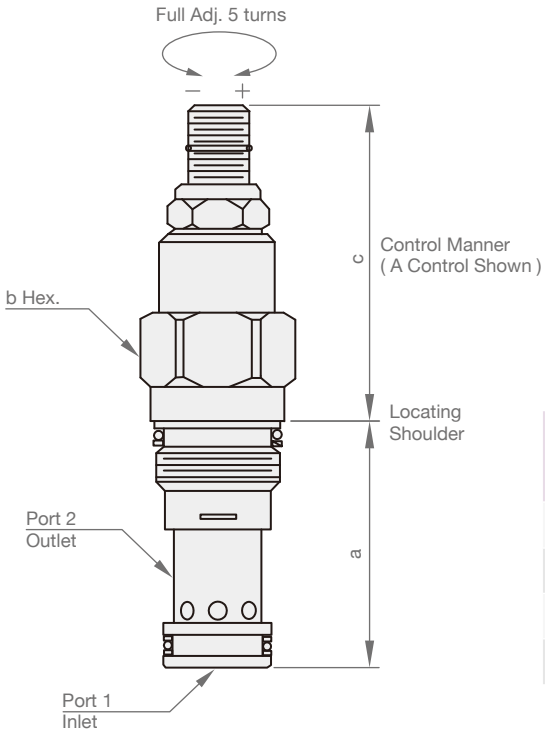
SRPC-08



SRPE

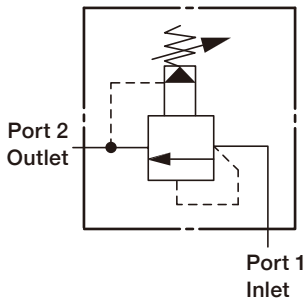
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SRPE-02	39.7	22.2	51	58
SRPE-03	47.8	28.6	54	61
SRPE-06	61.9	31.8	62	69
SRPE-08	79.4	41.3	71	78

SYMBOLS



ORDER CODES

SRPE - 02 - T10A - A N A

(1) (2) (3) (4) (5) (6)

1	Model Name	SRPE	
2	Valve Size	02, 03, 06, 08	
3	Cavity	T10A, T3A, T16A, T18A	
4	Adjustable Range	A	7 ~ 210 bar
		B	3.5 ~ 105 bar
		C	10.5 ~ 400 bar
		N	5 ~ 55 bar
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw
		B	control knob

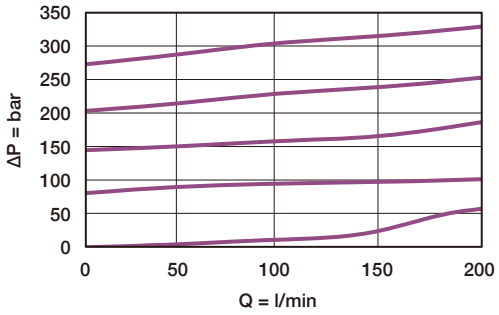
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SRPE-02	T10A	95	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.15
SRPE-03	T3A	200	350	60/70		0.25
SRPE-06	T16A	380	350	200/215		0.55
SRPE-08	T18A	760	350	465/500		1.17

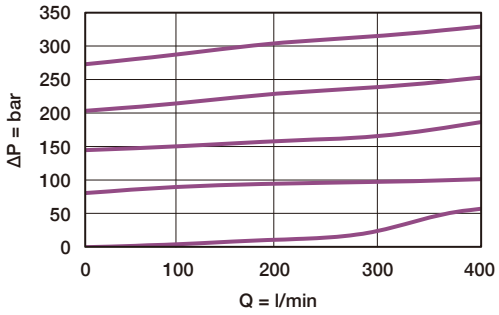
PERFORMANCE CURVES

▸ **Typical Pressure Rise**

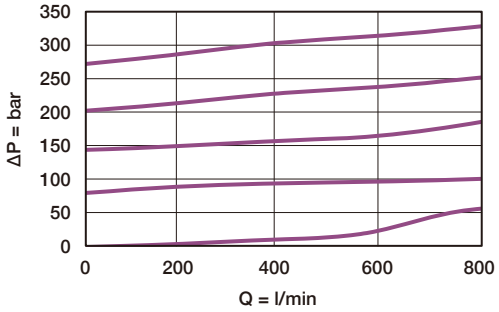
SRPE-02



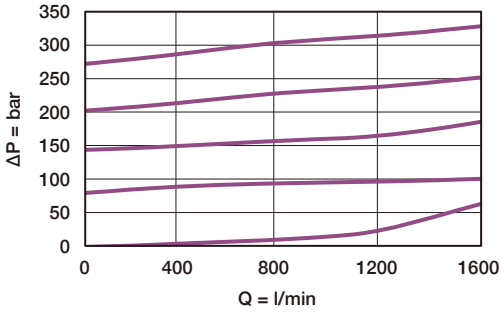
SRPE-03



SRPE-06



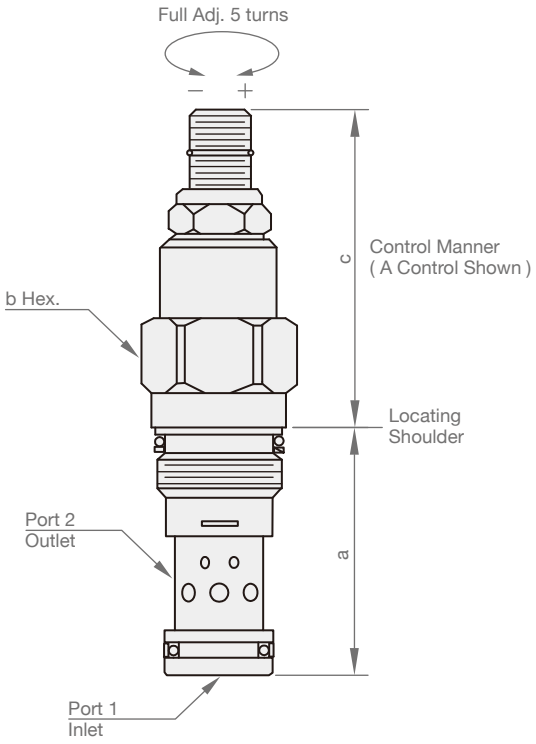
SRPE-08



SRDA

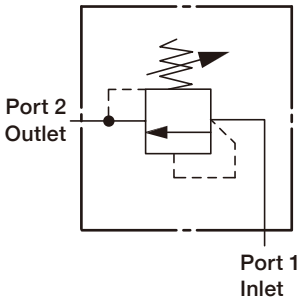
DIMENSION

(UNIT : mm)



Model	a	b	c
			A
SRDA-01	30.9	19	54.4
SRDA-02	39.7	22.2	61
SRDA-03	47.8	28.6	64
SRDA-06	61.9	31.8	83
SRDA-08	79.4	41.3	100

SYMBOLS



ORDER CODES

SRDA - 02 - T10A - A N A

(1) (2) (3) (4) (5) (6)

1	Model Name	SRDA	
2	Valve Size	01, 02, 03, 06, 08	
3	Cavity	T162A, T10A, T3A, T16A, T18A	
4	Adjustable Range	A	35 ~ 210 bar
		B	20 ~ 105 bar
		C	70 ~ 420 bar
		D	14 ~ 55 bar
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw

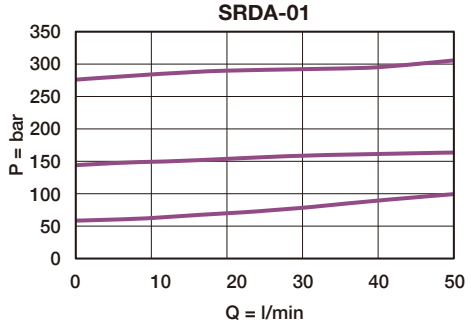
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SRDA-01	T162A	45	350	35/40	-35 ~ 100°C (-31 ~ 212°F)	0.18
SRDA-02	T10A	95	350	40/50		0.155
SRDA-03	T3A	200	350	60/70		0.295
SRDA-06	T16A	380	350	200/215		0.670
SRDA-08	T18A	760	350	465/500		1.450

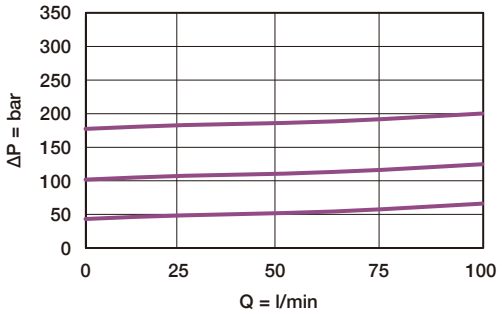
PERFORMANCE CURVES

▸ Typical Pressure Rise

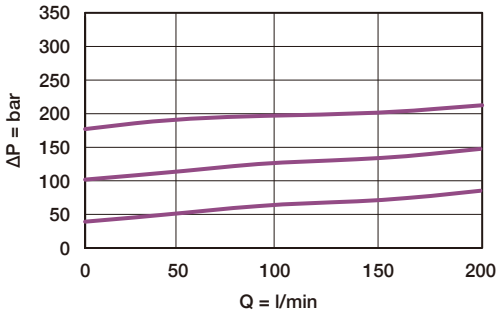
SRDA-01



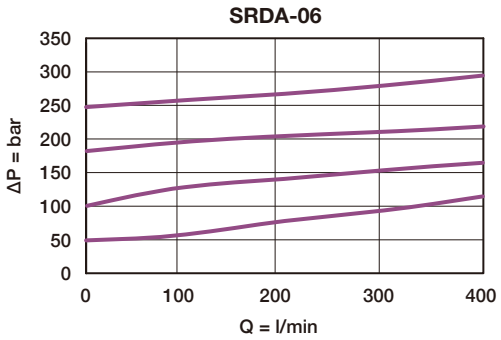
SRDA-02



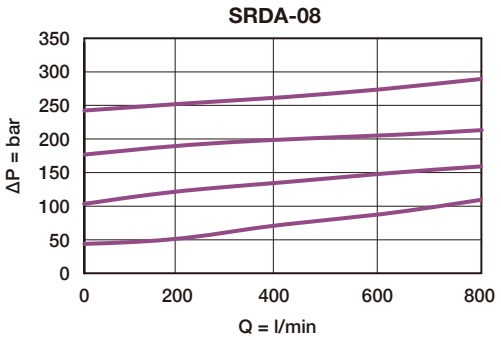
SRDA-03



SRDA-06



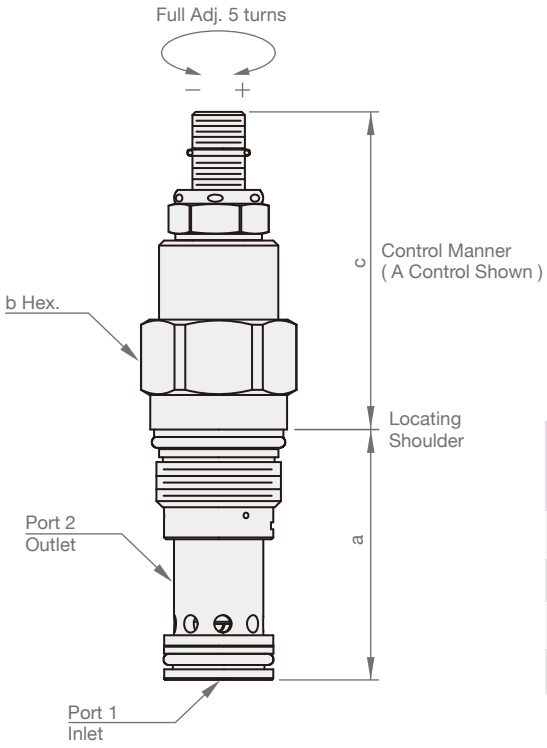
SRDA-08



SRQ

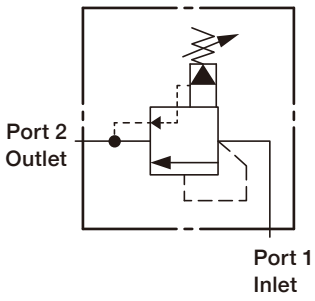
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SRQB-02	39.6	22.2	50.8	57.2
SRQB-03	47.8	28.6	53.8	60.5
SRQB-06	62.0	31.8	62.0	68.3
SRQB-08	79.5	41.3	71.4	77.7

SYMBOLS



ORDER CODES

SRQB - 02 - T10A - A N A

(1) (2) (3) (4) (5) (6)

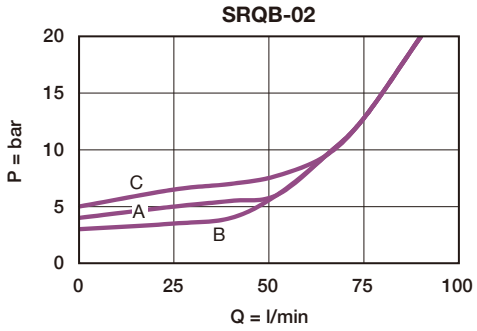
1	Model Name	SRQB	
2	Valve Size	02, 03, 06, 08	
3	Cavity	T10A, T3A, T16A, T18A	
4	Adjustable Range	A	7 ~ 210 bar
		B	3.5 ~ 105 bar
		C	10.5 ~ 420 bar
		N	5 ~ 55 bar
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw
		B	control knob

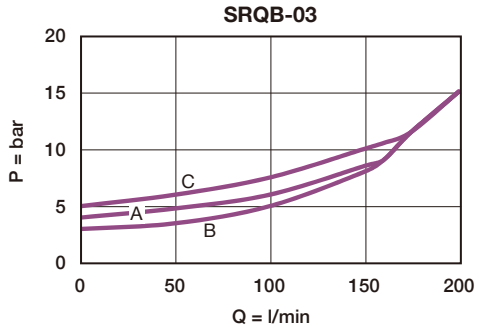
MODEL SPEC.

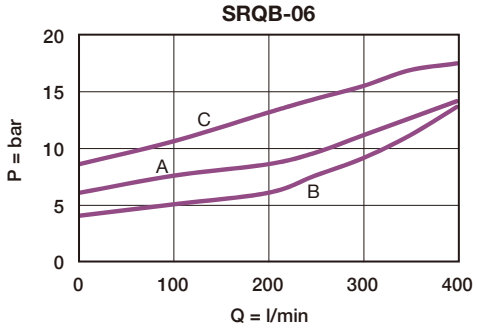
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SRQB-02	T10A	95	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.14
SRQB-03	T3A	200	350	60/70		0.26
SRQB-06	T16A	380	350	200/215		0.54
SRQB-08	T18A	760	350	465/500		1.17

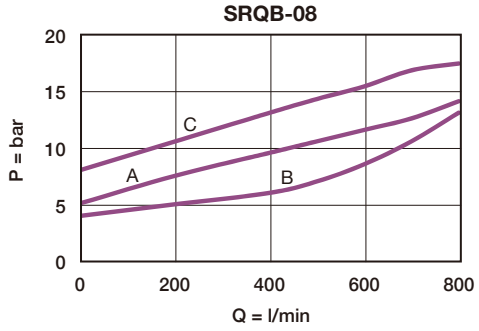
PERFORMANCE CURVES

▸ **Unloaded Pressure Drop**





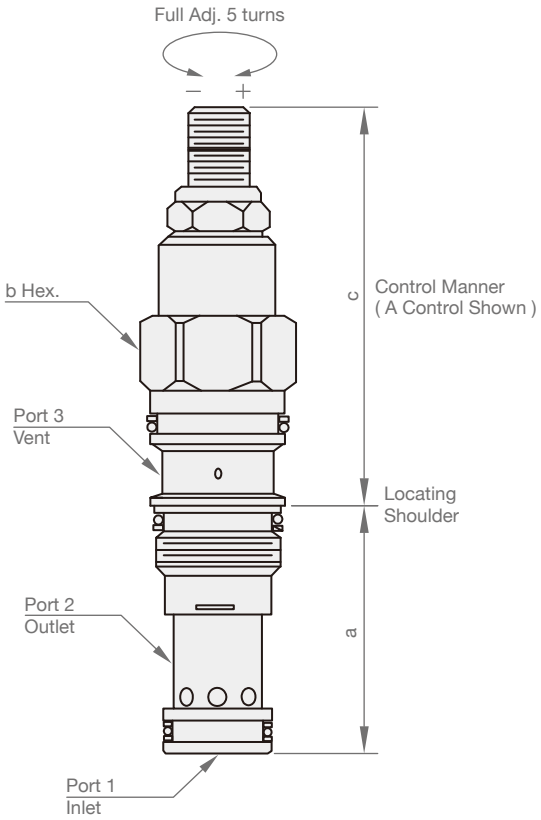




SRVA

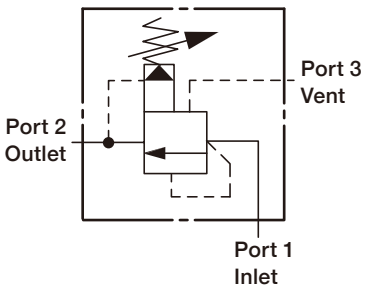
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SRVA-01	31	19	66	72
SRVA-02	34.9	22.2	64	70
SRVA-03	34.9	28.6	72	78
SRVA-06	46.0	31.8	84	90
SRVA-08	63.5	41.3	100	107

SYMBOLS



ORDER CODES

SRVA - 02 - T11A - A N A

(1) (2) (3) (4) (5) (6)

1	Model Name	SRVA	
2	Valve Size	01, 02, 03, 06, 08	
3	Cavity	T163A, T11A, T2A, T17A, T19A	
4	Adjustable Range	A	7 ~ 210 bar
		B	3.5 ~105 bar
		C	10.5 ~ 420 bar
		N	5 ~ 55 bar
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw
		B	control knob

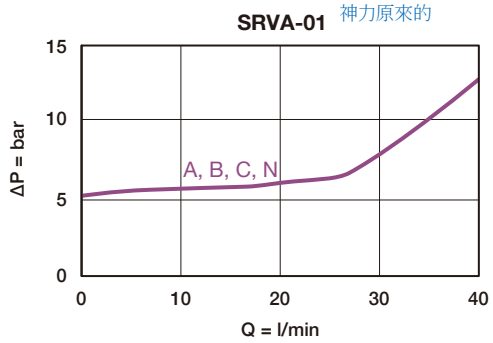
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SRVA-01	T163A	30	350	35/40	-35 ~ 100°C (-31 ~ 212°F)	0.13
SRVA-02	T11A	60	350	40/50		0.17
SRVA-03	T2A	120	350	60/70		0.30
SRVA-06	T17A	240	350	200/215		0.64
SRVA-08	T19A	480	350	465/500		1.43

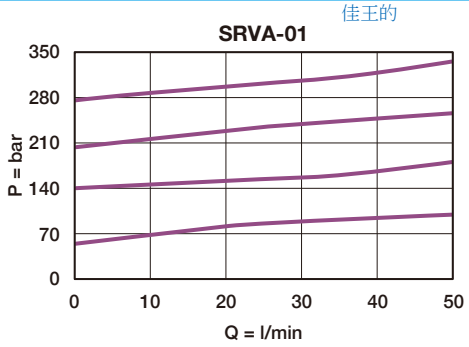
PERFORMANCE CURVES

▸ **Vented Pressure Drop**

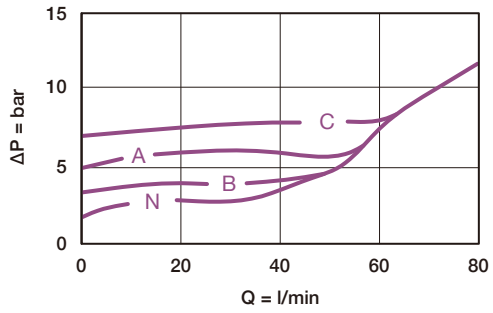
SRVA-01 神力原來的



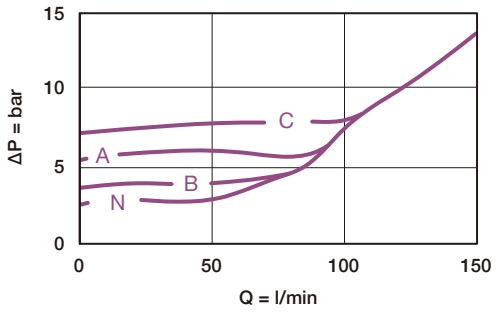
SRVA-01 佳王的



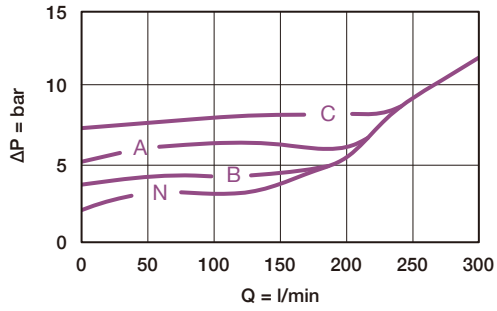
SRVA-02



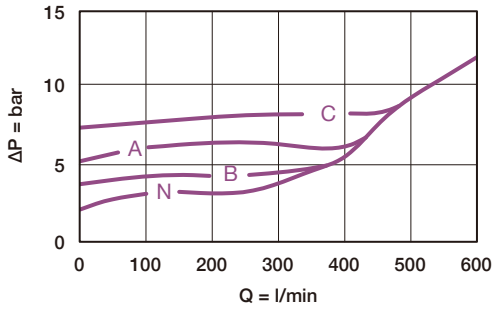
SRVA-03



SRVA-06



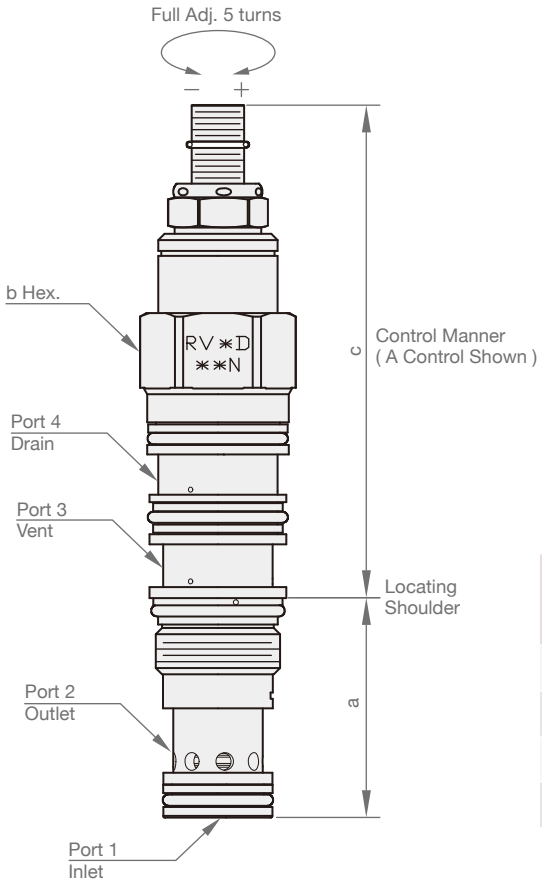
SRVA-08



SRVD

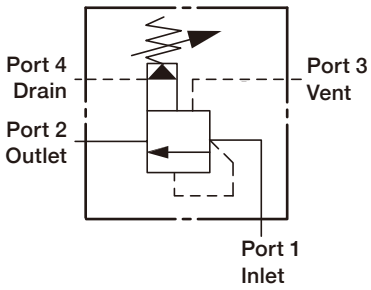
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SRVD-02	35.1	22.2	78.5	84.8
SRVD-03	35.1	28.6	87.4	93.7
SRVD-06	46.0	31.8	99.8	106.4
SRVD-08	63.5	41.3	121.4	127.8

SYMBOLS



ORDER CODES

SRVD - 02 - T21A - A N A

(1) (2) (3) (4) (5) (6)

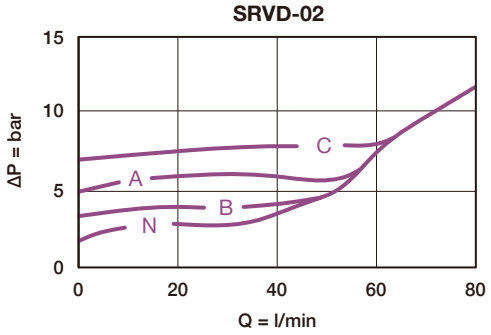
1	Model Name	SRVD	
2	Valve Size	02, 03, 06, 08	
3	Cavity	T21A, T22A, T23A, T24A	
4	Adjustable Range	A	7 ~ 210 bar
		B	3.5 ~105 bar
		C	10.5 ~ 420 bar
		N	5 ~ 55 bar
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw
		B	control knob

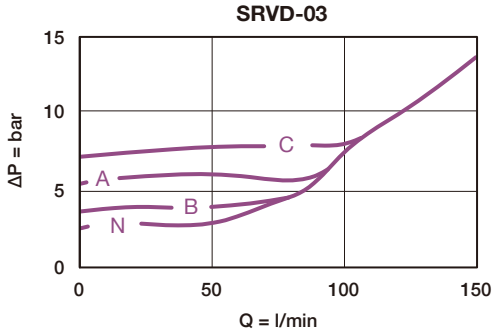
PERFORMANCE CURVES

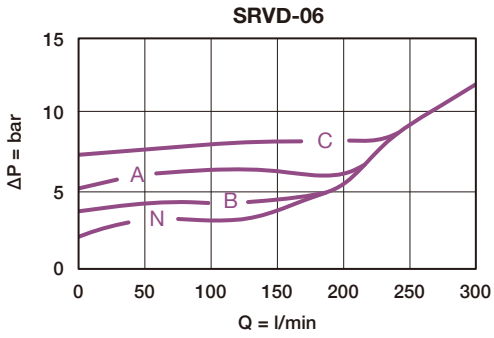
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SRVD-02	T21A	60	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.20
SRVD-03	T22A	120	350	60/70		0.35
SRVD-06	T23A	240	350	200/215		0.75
SRVD-08	T24A	480	350	465/500		1.75

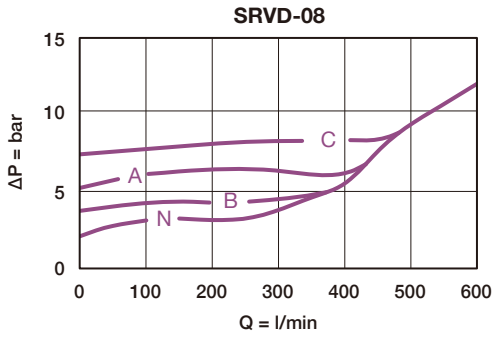
MODEL SPEC.

▸ **Vented Pressure Drop**





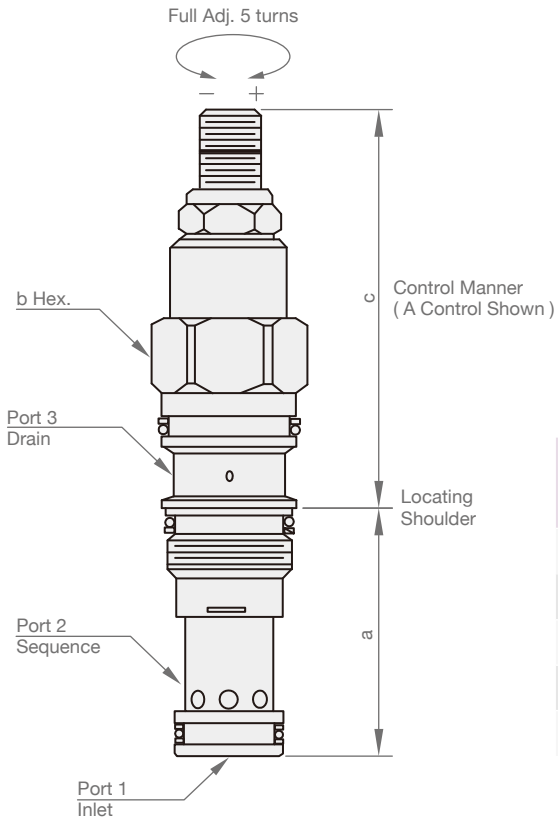




SRSC

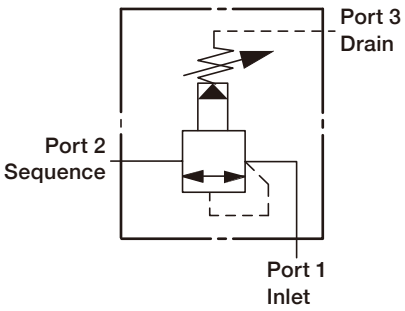
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SRSC-01	31	19	66	72
SRSC-02	34.9	22.2	64	70
SRSC-03	34.9	28.6	72	78
SRSC-06	46.0	31.8	84	90
SRSC-08	63.5	41.3	100	107

SYMBOLS



ORDER CODES

SRSC - 02 - T11A - A N A

1 2 3 4 5 6

1	Model Name	SRSC	
2	Valve Size	01, 02, 03, 06, 08	
3	Cavity	T163A, T11A, T2A, T17A, T19A	
4	Adjustable Range	A	7 ~ 210 bar
		B	3.5 ~105 bar
		C	10.5~ 420 bar
		E	1.7 ~ 28 bar
		N	5 ~ 55 bar
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw
		B	control knob

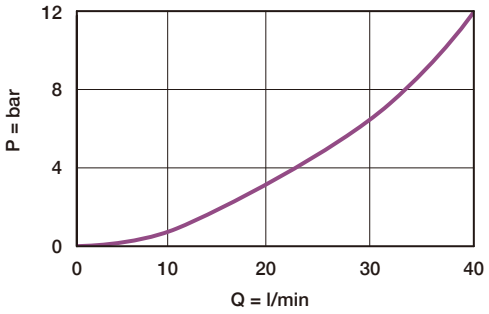
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SRSC-01	T163A	30	350	35/40	-35 ~ 100°C (-31 ~ 212°F)	0.13
SRSC-02	T11A	60	350	40/50		0.17
SRSC-03	T2A	120	350	60/70		0.30
SRSC-06	T17A	240	350	200/215		0.64
SRSC-08	T19A	480	350	465/500		1.43

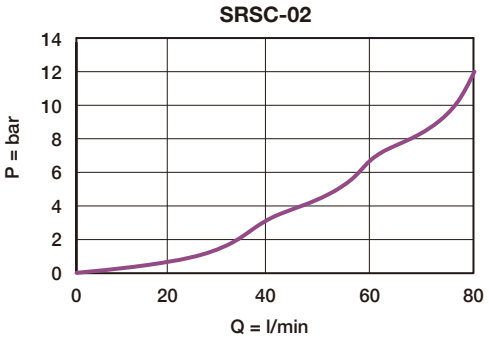
PERFORMANCE CURVES

▸ **Pressure Drop Fully Sequence**

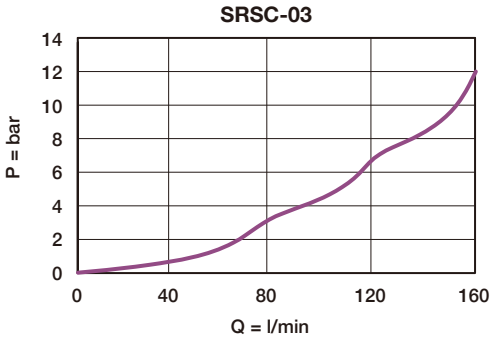
SRSC-01



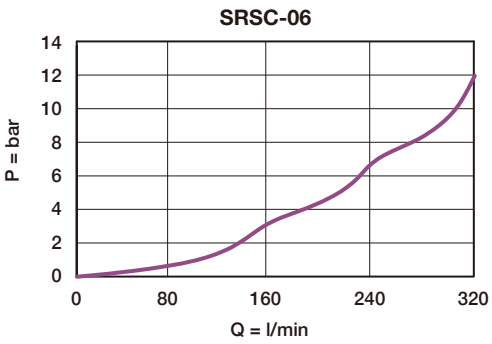
SRSC-02



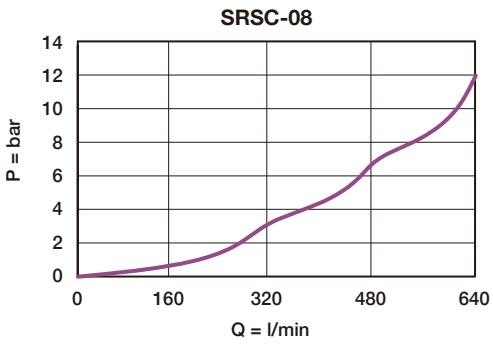
SRSC-03



SRSC-06



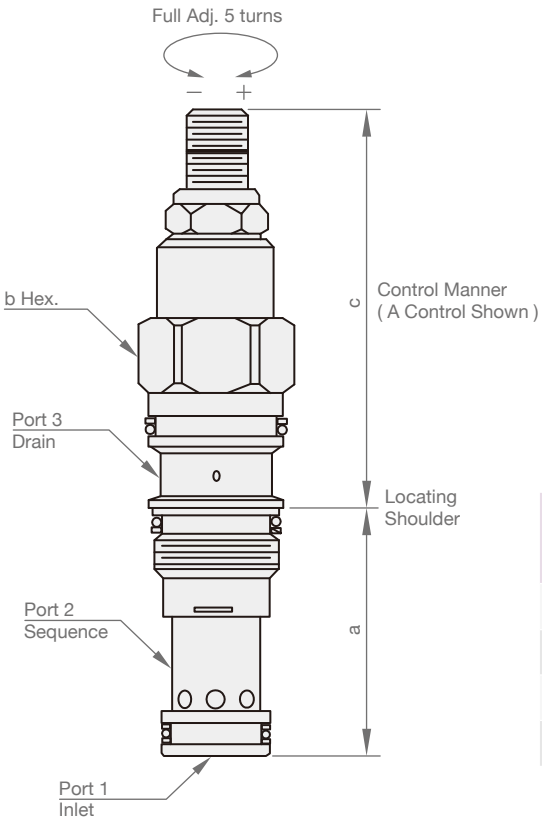
SRSC-08



SSQ

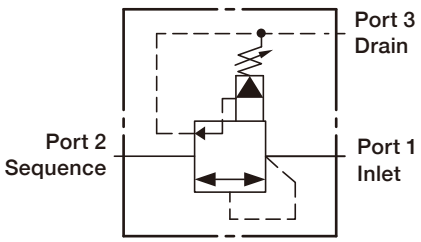
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SSQB-02	34.9	22.2	64	70
SSQB-03	34.9	28.6	72	78
SSQB-06	46.0	31.8	84	90
SSQB-08	63.5	41.3	100	107

SYMBOLS



ORDER CODES

SSQB - 02 - T11A - A N A

(1) (2) (3) (4) (5) (6)

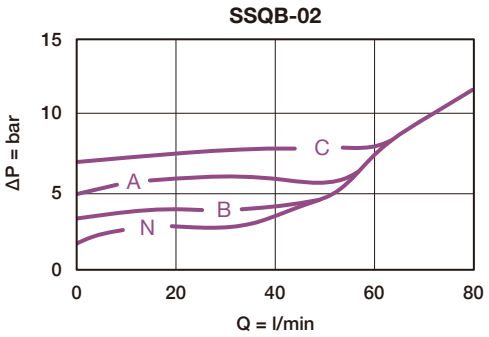
1	Model Name	SSQB	
2	Valve Size	02, 03, 06, 08	
3	Cavity	T11A, T2A, T17A, T19A	
4	Adjustable Range	A	7 ~ 210 bar
		B	3.5 ~105 bar
		C	10 ~ 400 bar
		N	5 ~ 55 bar
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw
		B	control knob

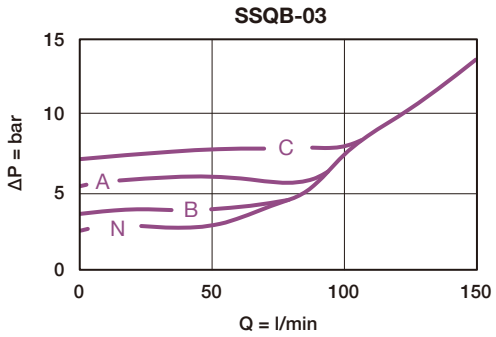
MODEL SPEC.

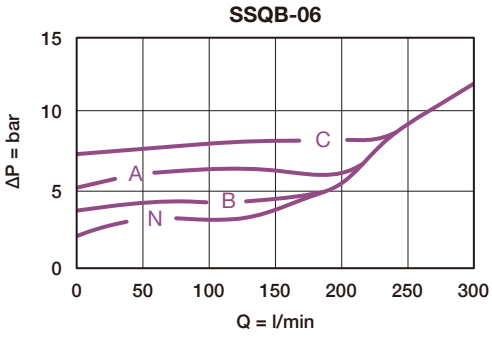
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SSQB-02	T11A	60	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.17
SSQB-03	T2A	120	350	60/70		0.30
SSQB-06	T17A	240	350	200/215		0.64
SSQB-08	T19A	480	350	465/500		1.43

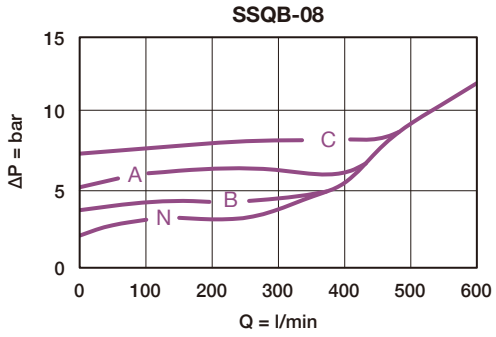
PERFORMANCE CURVES

▸ **Pressure Drop After Opening**





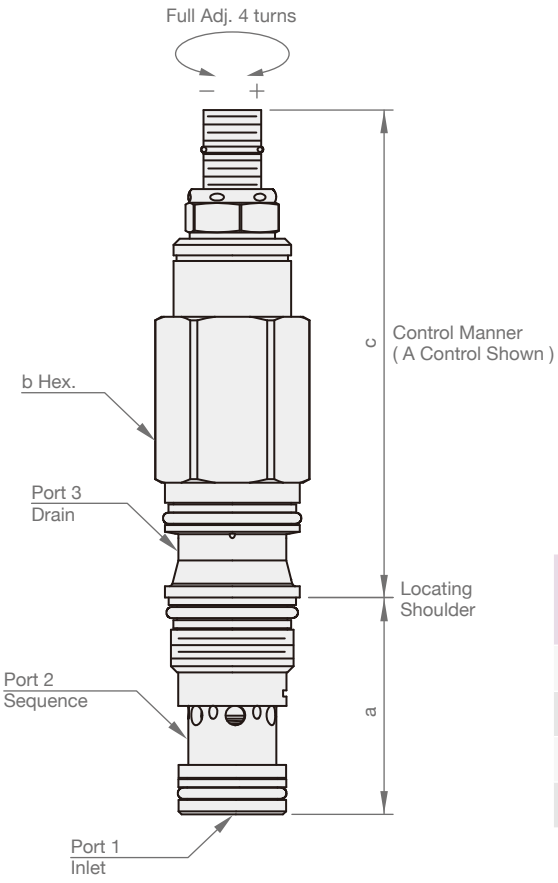




SSC

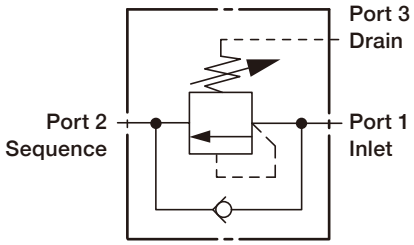
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SSCA-02	35.1	22.2	78.5	84.8
SSCA-03	35.1	28.6	88.1	94.0
SSCA-06	46.0	31.8	100.0	-
SSCA-08	63.5	41.3	122.9	-

SYMBOLS



ORDER CODES

SSCA - 02 - T11A - A N A

(1) (2) (3) (4) (5) (6)

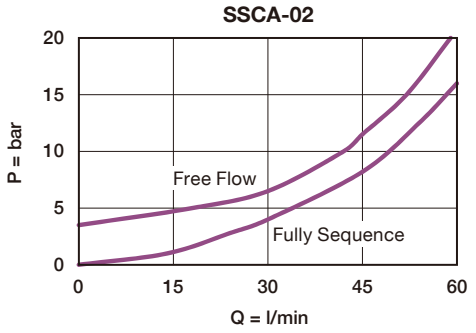
1	Model Name	SSCA	
2	Valve Size	02, 03, 06, 08	
3	Cavity	T11A, T2A, T17A, T19A	
4	Adjustable Range	A	35 ~ 210 bar
		B	20 ~105 bar
		C	140 ~ 420 bar
		D	14 ~ 55 bar
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw
		B	control knob

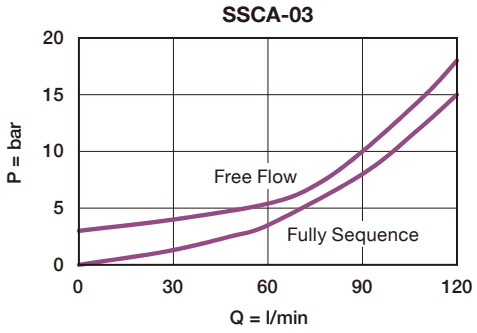
MODEL SPEC.

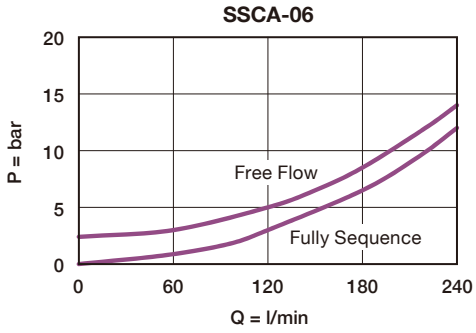
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SSCA-02	T11A	60	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.20
SSCA-03	T2A	120	350	60/70		0.38
SSCA-06	T17A	240	350	200/215		0.74
SSCA-08	T19A	480	350	465/500		1.62

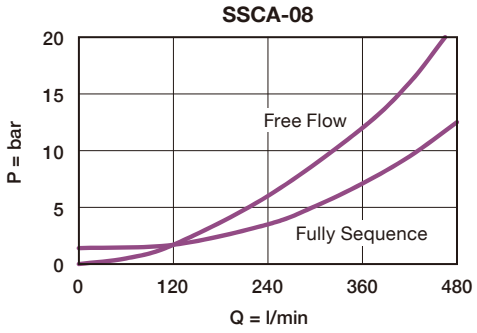
PERFORMANCE CURVES

▸ **Free Flow & Pressure Drop Fully Sequenced**





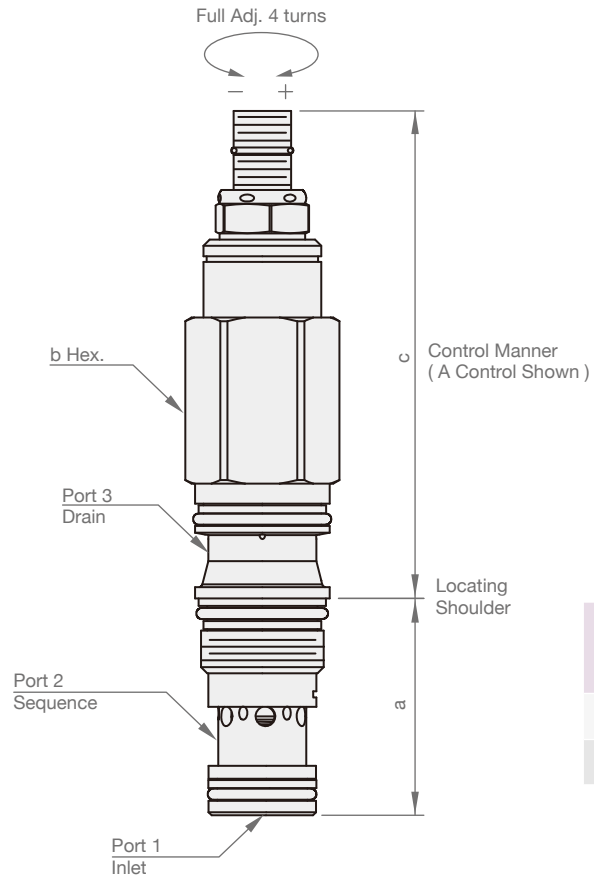




SSX

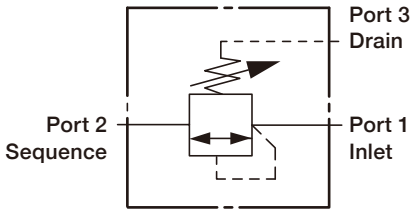
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SSXA-02	35.1	22.2	78.5	84.8
SSXA-03	35.1	28.6	88.1	94.0

SYMBOLS



ORDER CODES

SSXA - 03 - T11A - A N A

(1) (2) (3) (4) (5) (6)

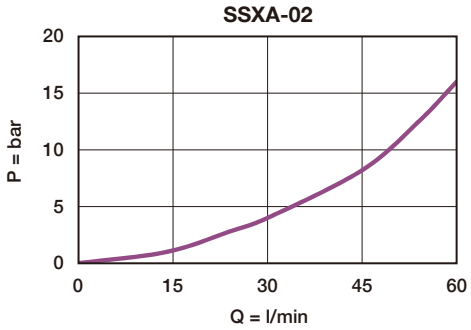
1	Model Name	SSXA	
2	Valve Size	02, 03	
3	Cavity	T11A, T2A	
5	Adjustable Range	A	35 ~ 210 bar
		B	20 ~105 bar
		C	140 ~ 420 bar
		D	14 ~ 55 bar
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw
		B	control knob

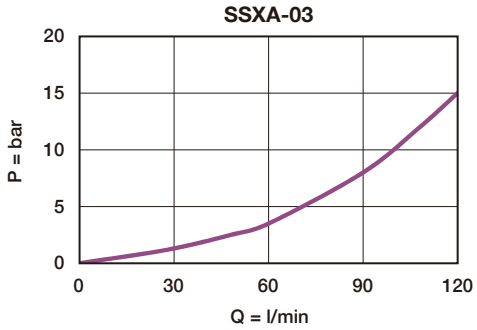
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SSXA-02	T11A	60	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.20
SSXA-03	T2A	120	350	60/70		0.36

PERFORMANCE CURVES

▸ **Pressure Drop Fully Sequenced**

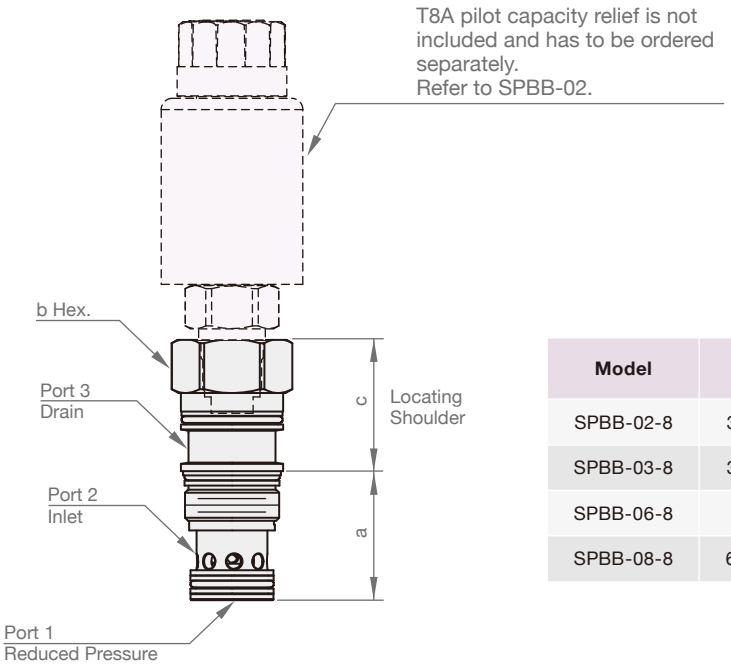




SPBB8

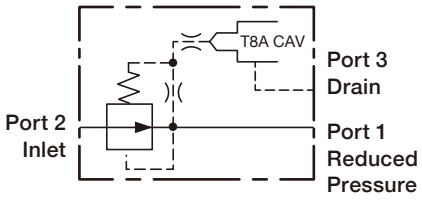
DIMENSION

(UNIT : mm)



Model	a	b	c
SPBB-02-8	35.1	22.2	30.2
SPBB-03-8	35.1	28.6	35.1
SPBB-06-8	46	31.8	46
SPBB-08-8	63.5	41.3	58.7

SYMBOLS



ORDER CODES

SPBB - 03 - T2A - W N 8

1	Model Name	SPBB	
2	Valve Size	02, 03, 06, 08	
3	Cavity	T11A, T2A, T17A, T19A	
4	Cracking Pressure (bar)	W	7
		D	1.7
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	8	integral cavity T8A

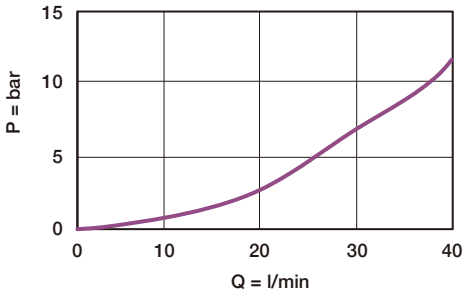
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SPBB-02-8	T11A	40	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.09
SPBB-03-8	T2A	80	350	60/70		0.17
SPBB-06-8	T17A	160	350	200/215		0.43
SPBB-08-8	T19A	320	350	465/500		0.59

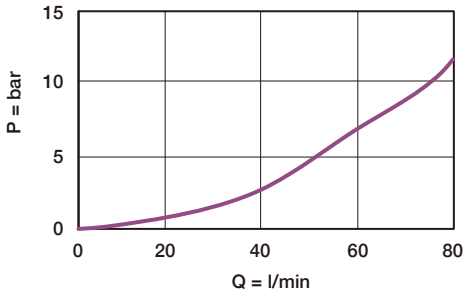
PERFORMANCE CURVES

▸ **Typical Pressure Rise**

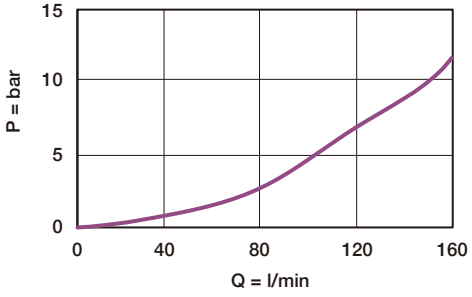
SPBB-02-8



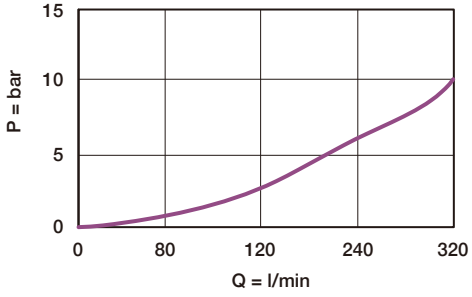
SPBB-03-8



SPBB-06-8



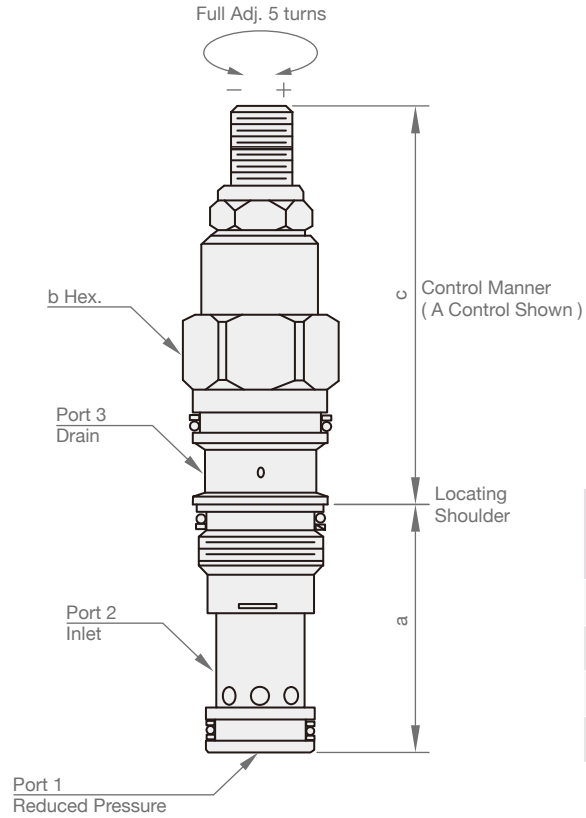
SPBB-08-8



SPBB

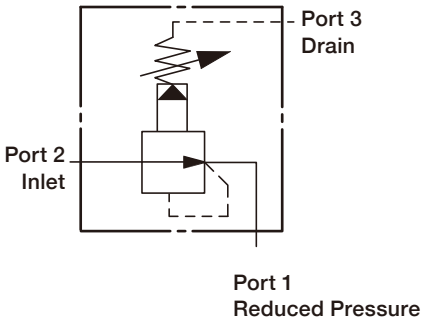
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SPBB-02	34.9	22.2	64	70
SPBB-03	34.9	28.6	72	78
SPBB-06	46.0	31.8	84	90
SPBB-08	63.5	41.3	100	107

SYMBOLS



ORDER CODES

SPBB - 02 - T11A - A N A

(1) (2) (3) (4) (5) (6)

1	Model Name	SPBB	
2	Valve Size	02, 03, 06, 08	
3	Cavity	T11A, T2A, T17A, T19A	
4	Adjustable Range	A	7 ~ 210 bar
		B	3.5 ~105 bar
		C	10.5 ~ 420 bar
		N	4 ~ 55 bar
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw
		B	control knob

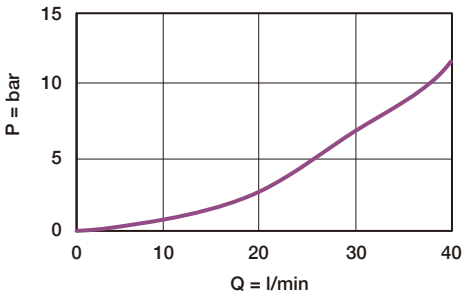
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SPBB-02	T11A	40	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.17
SPBB-03	T2A	80	350	60/70		0.30
SPBB-06	T17A	160	350	200/215		0.64
SPBB-08	T19A	320	350	465/500		1.43

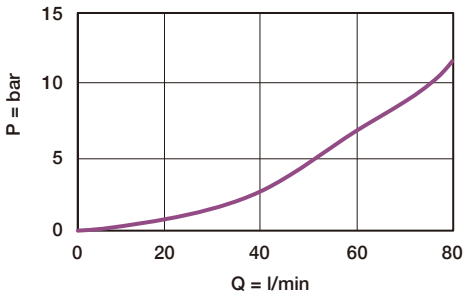
PERFORMANCE CURVES

▸ **No Load Pressure Drop**

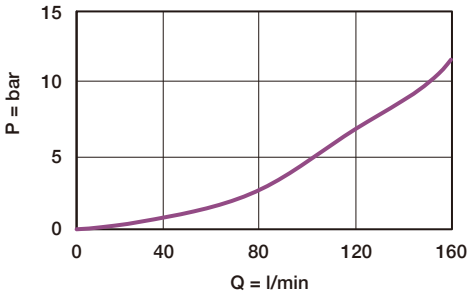
SPBB-02



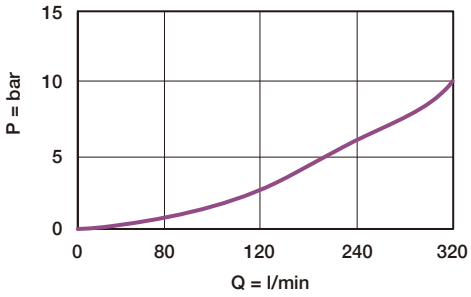
SPBB-03



SPBB-06



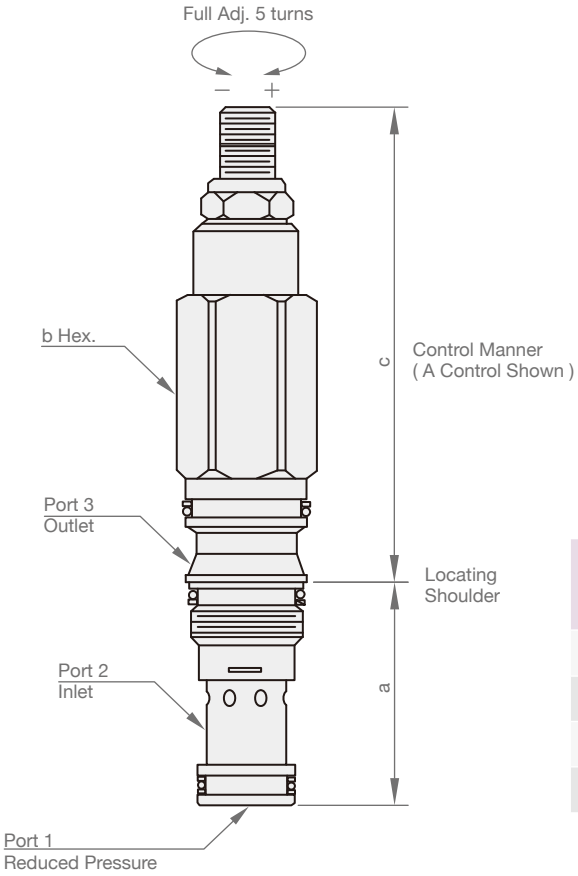
SPBB-08



SPRR

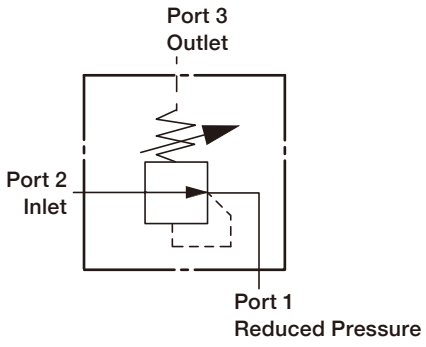
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SPRR-02	34.9	22.2	79	85
SPRR-03	34.9	28.6	89	96
SPRR-06	46.0	31.8	100	107
SPRR-08	63.5	41.3	124	130

SYMBOLS



ORDER CODES

SPRR - 02 - T11A - A N A

(1) (2) (3) (4) (5) (6)

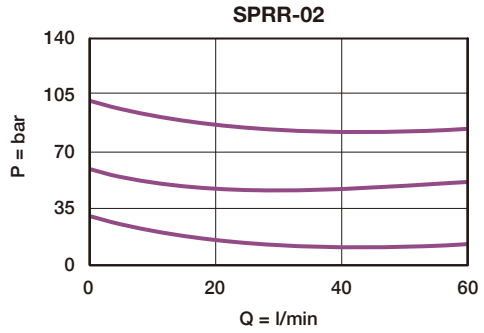
1	Model Name	SPRR	
2	Valve Size	02, 03, 06, 08	
3	Cavity	T11A, T2A, T17A, T19A	
4	Adjustable Range	A	35 ~ 210 bar
		B	3.5 ~ 105 bar
		D	1.7 ~ 55 bar
		W	50 ~ 315 bar
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw
		B	control knob

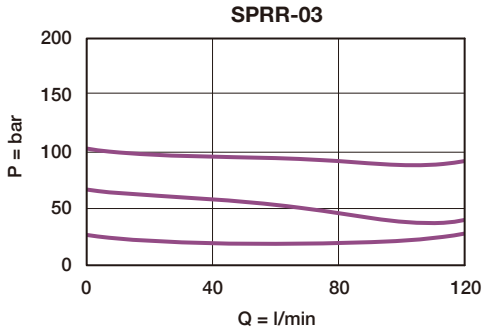
MODEL SPEC.

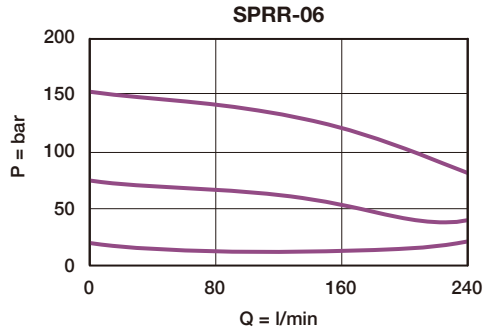
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SPRR-02	T11A	40	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.20
SPRR-03	T2A	80	350	60/70		0.36
SPRR-06	T17A	160	350	200/215		0.76
SPRR-08	T19A	320	350	465/500		1.58

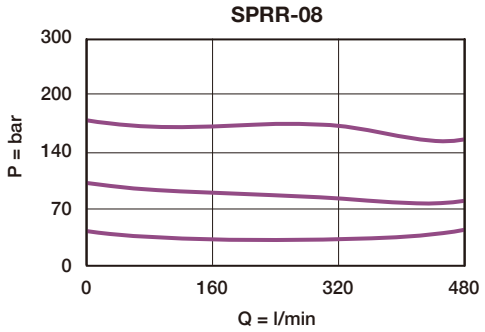
PERFORMANCE CURVES

▸ **Regulated Pressure**





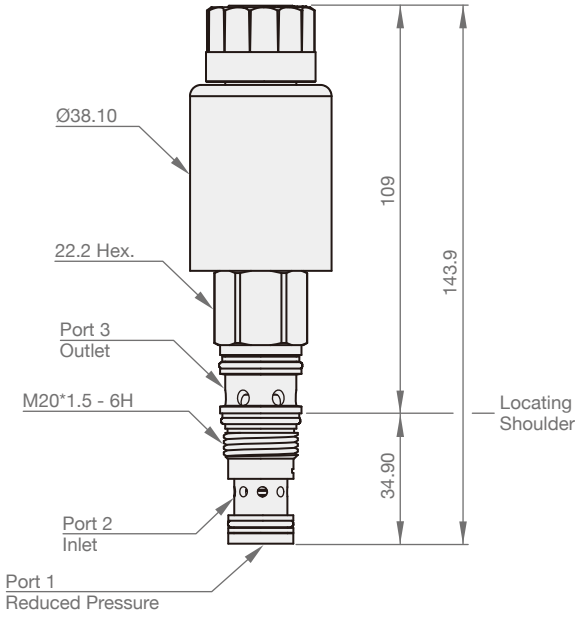




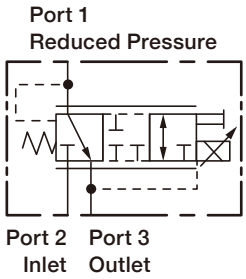
SPRP

DIMENSION

(UNIT : mm)



SYMBOLS



ORDER CODES

SPRP	-	02	-	T11A	-	D	N	M	-	DR	24
1		2		3		4	5	6		7	8

1	Model Name	SPRP	
2	Capacity (l/min)	02	20
3	Cavity	T11A	
4	Adjustment Range (bar)	D	3.5 ~ 33.5
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	M	manual override
7	Connector (coil)	DG	ISO/DIN43650
		DR	Deutsch DT04-2P
8	Voltage (coil)	12	12 VDC
		24	24 VDC

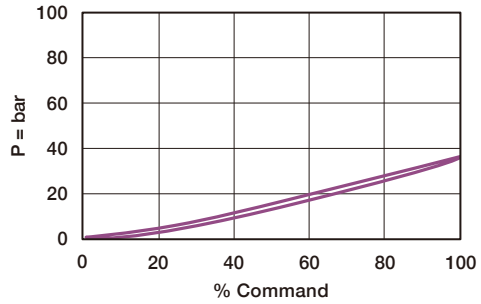
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Leakage	Installation Torque (Nm)
SPRP-02	T11A	20	350	less than 45 cc/min	40/50

Model	Max. Current	Power Consumption (watts)	Body's Weight (kg)	Coil's Weight (kg)
SPRP-02	1150mA@12VDC 590mA@24VDC	22	0.33	0.23

PERFORMANCE CURVES

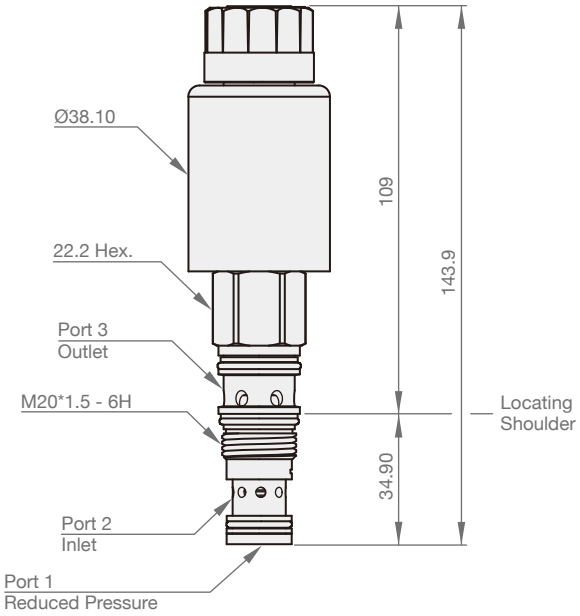
▸ **Pressure vs. Command**



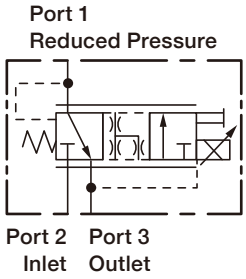
SPRL

DIMENSION

(UNIT : mm)



SYMBOLS



ORDER CODES

SPRL	-	02	-	T11A	-	D	N	M	-	DG	24
1		2		3		4	5	6		7	8

1	Model Name	SPRL	
2	Capacity (l/min)	02	20
3	Cavity	T11A	
4	Adjustment Range (bar)	D	3.5 ~ 33.5
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	M	manual override
7	Connector (coil)	DG	ISO/DIN43650
		DR	Deutsch DT04-2P
8	Voltage (coil)	12	12 VDC
		24	24 VDC

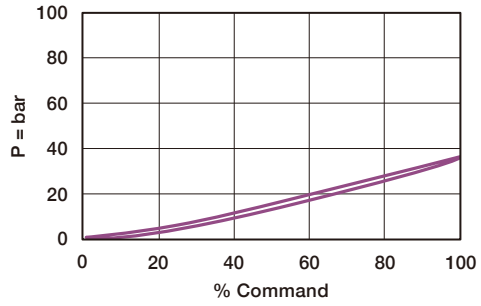
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Leakage	Installation Torque (Nm)
SPRL-02	T11A	20	350	less than 330 cc/min	40/50

Model	Max. Current	Power Consumption (watts)	Body's Weight (kg)	Coil's Weight (kg)
SPRL-02	1150mA@12VDC 590mA@24VDC	22	0.33	0.23

PERFORMANCE CURVES

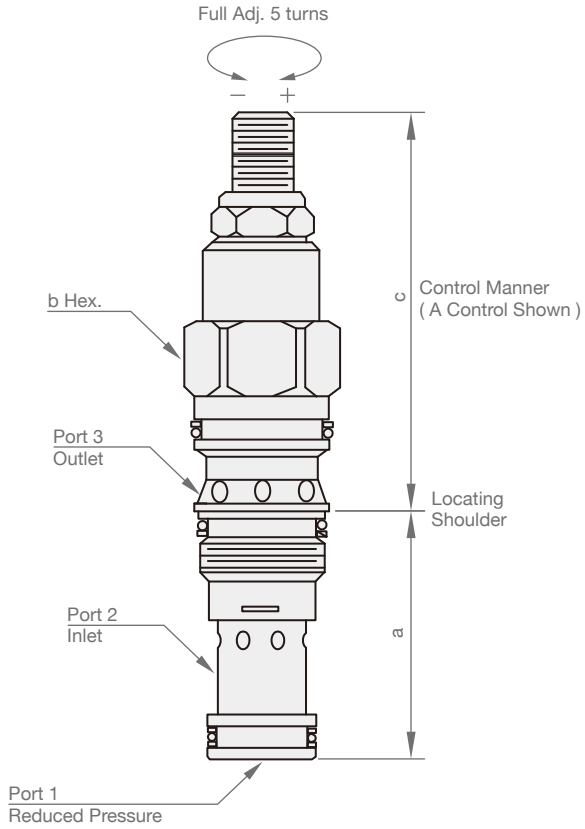
▸ **Pressure vs. Command**



SPPB

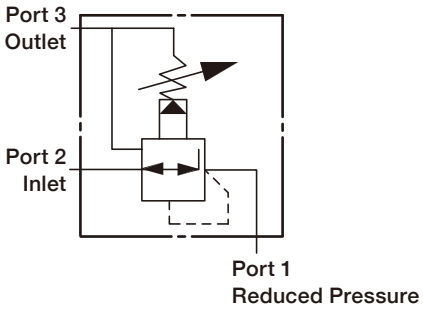
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SPPB-01	30.9	19	74.5	80.5
SPPB-02	34.9	22.2	64	70
SPPB-03	34.9	28.6	72	78
SPPB-06	46.0	31.8	84	90
SPPB-08	63.5	41.3	100	107

SYMBOLS



ORDER CODES

SPPB - 02 - T11A - A N A

(1) (2) (3) (4) (5) (6)

1	Model Name	SPPB	
2	Valve Size	01, 02, 03, 06, 08	
3	Cavity	T163A, T11A, T2A, T17A, T19A	
4	Adjustable Range	A	7 ~ 210 bar
		B	3.5 ~105 bar
		C	10.5 ~ 420 bar
		N	4 ~ 55 bar
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw
		B	control knob

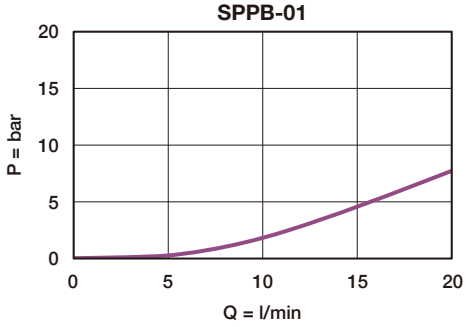
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SPPB-01	T163A	20	350	35/40	-35 ~ 100°C (-31 ~ 212°F)	0.15
SPPB-02	T11A	40	350	40/50		0.17
SPPB-03	T2A	80	350	60/70		0.30
SPPB-06	T17A	160	350	200/215		0.64
SPPB-08	T19A	320	350	465/500		1.43

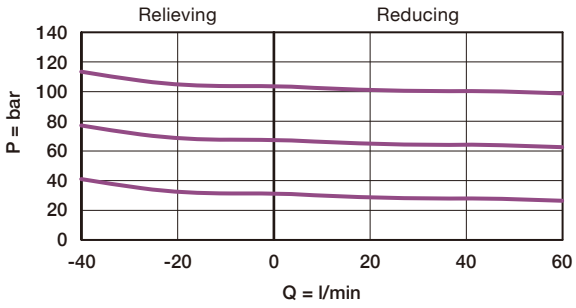
PERFORMANCE CURVES

▸ **Regulated Pressure**

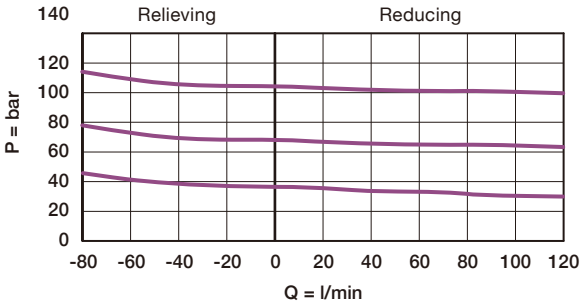
SPPB-01



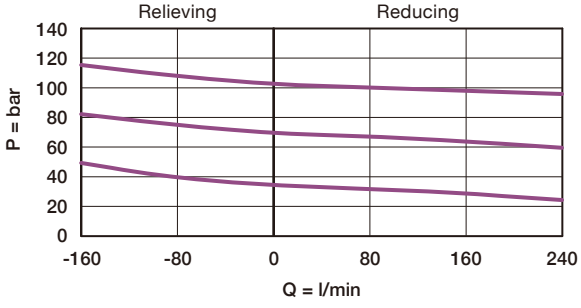
SPPB-02



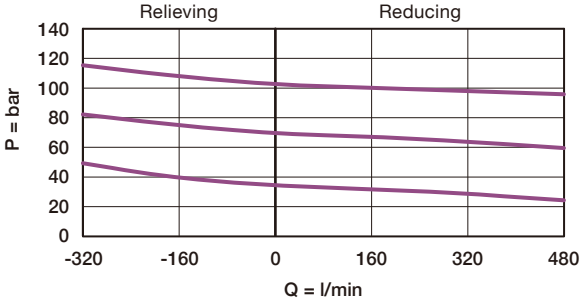
SPPB-03



SPPB-06



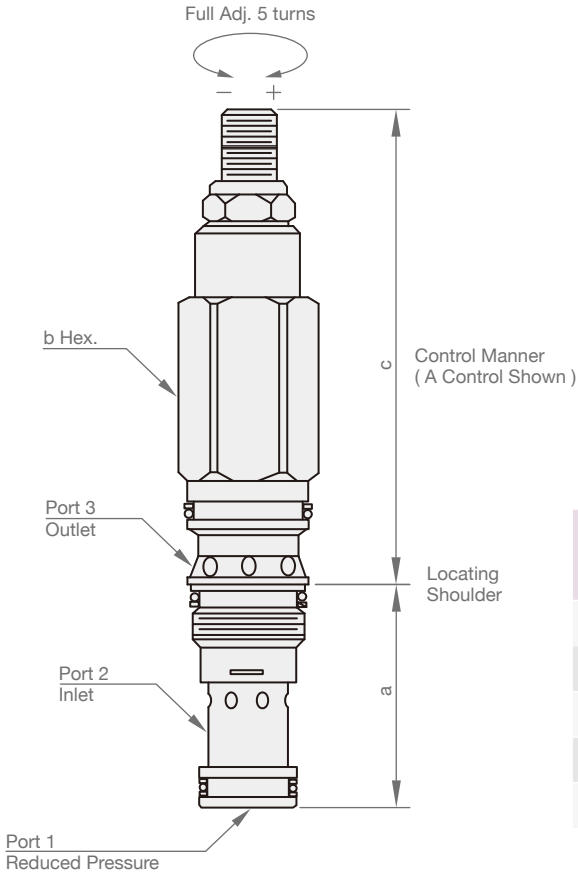
SPPB-08



SPRB

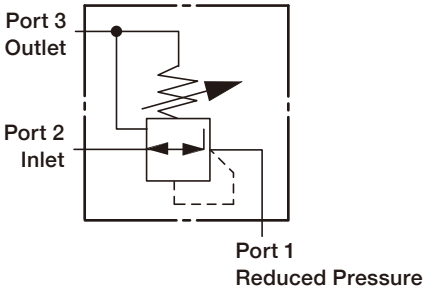
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SPRB-01	30.9	19	79	85
SPRB-02	34.9	22.2	79	85
SPRB-03	34.9	28.6	89	96
SPRB-06	46.0	31.8	100	107
SPRB-08	63.5	41.3	124	130

SYMBOLS



ORDER CODES

SPRB - 02 - T11A - A N A

(1) (2) (3) (4) (5) (6)

1	Model Name	SPRB	
2	Valve Size	01, 02, 03, 06, 08	
3	Cavity	T163A, T11A, T2A, T17A, T19A	
4	Adjustable Range	A	35 ~ 210 bar
		B	3.5 ~ 105 bar
		D	1.7 ~ 55 bar
		W	50 ~ 315 bar
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw
		B	control knob

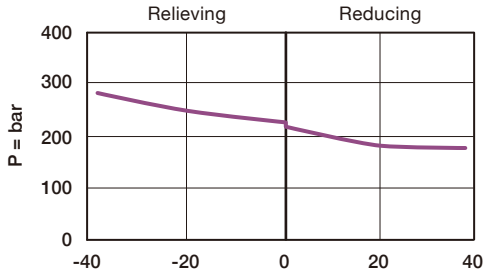
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SPRB-01	T163A	20	350	35/40	-35 ~ 100°C (-31 ~ 212°F)	0.14
SPRB-02	T11A	40	350	40/50		0.20
SPRB-03	T2A	80	350	60/70		0.36
SPRB-06	T17A	160	350	200/215		0.76
SPRB-08	T19A	320	350	465/500		1.58

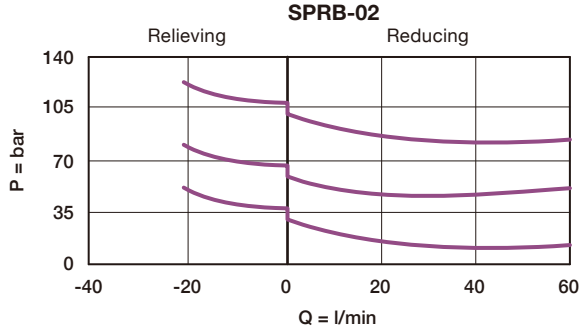
PERFORMANCE CURVES

▸ **Regulated Pressure**

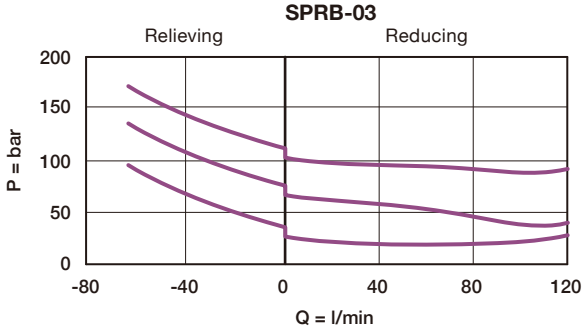
SPRB-01



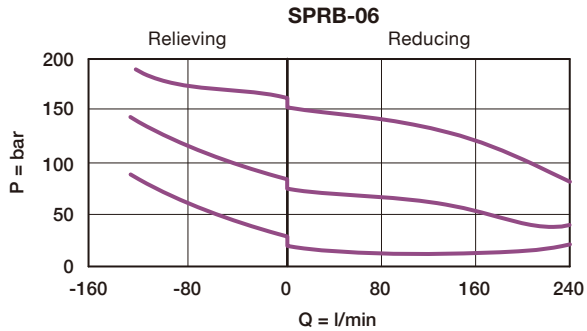
SPRB-02



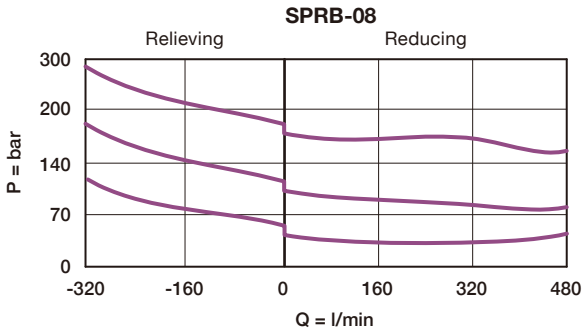
SPRB-03



SPRB-06



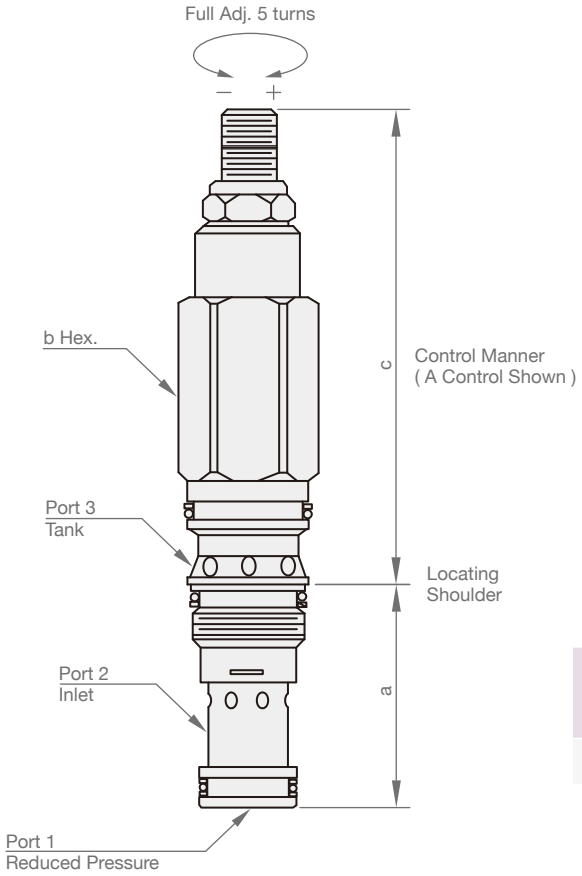
SPRB-08



SPRC

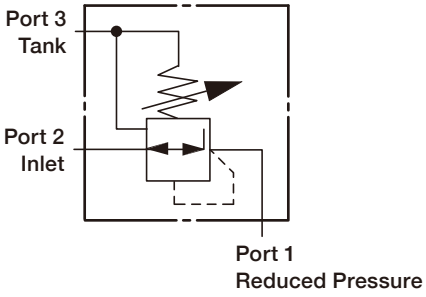
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SPRC-02	34.9	22.2	79	85

SYMBOLS



ORDER CODES

SPRC - 02 - T11A - A N A

(1) (2) (3) (4) (5) (6)

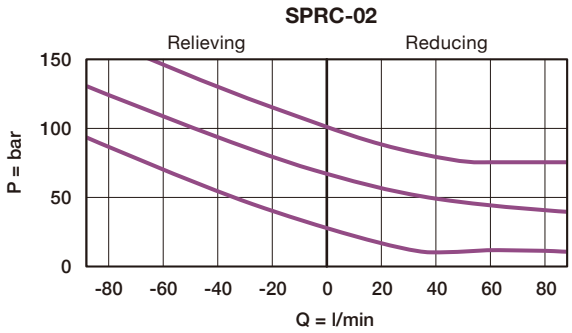
1	Model Name	SPRC	
2	Valve Size	02	
3	Cavity	T11A	
4	Adjustable Range	A	35 ~ 210 bar
		B	3.5 ~ 105 bar
		D	1.7 ~ 55 bar
		W	50 ~ 315 bar
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw
		B	control knob

MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SPRC-02	T11A	40	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.2

PERFORMANCE CURVES

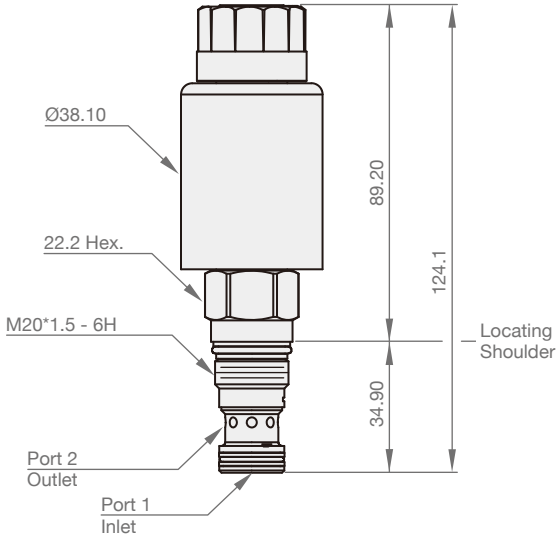
▸ **Regulated Pressure**



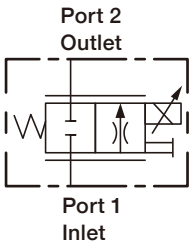
SFPC

DIMENSION

(UNIT : mm)



SYMBOLS



ORDER CODES

SFPC	-	02	-	T13A	-	C	N	M	-	DR	24
①		②		③		④	⑤	⑥		⑦	⑧

①	Model Name	SFPC	normally closed
②	Capacity (l/min)	02	40
③	Cavity	T13A	
④	Flow Range (l/min)	C	1 ~ 28
⑤	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
⑥	Control Manner	M	manual override
⑦	Connector (coil)	DG	ISO/DIN43650
		DR	Deutsch DT04-2P
⑧	Voltage (coil)	12	12 VDC
		24	24 VDC

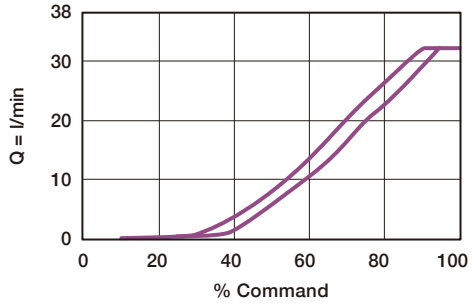
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Leakage	Installation Torque (Nm)
SFPC-02	T13A	40	350	less than 100 cc/min	45/50

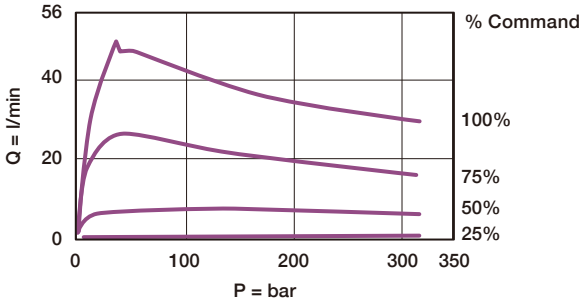
Model	Hysteresis	Max. Current	Power Consumption (watts)	Body's Weight (kg)	Coil's Weight (kg)
SFPC-02	5%	1150mA@12VDC 590mA@24VDC	22	0.27	0.23

PERFORMANCE CURVES

▸ **Flow vs. Command @14bar**



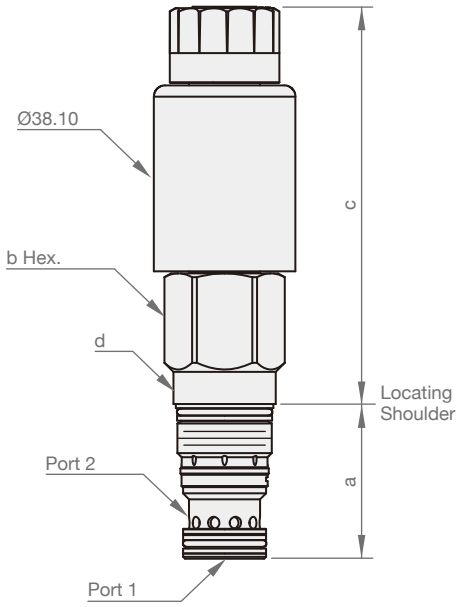
▸ **Flow vs. Pressure Differential**



SFPK

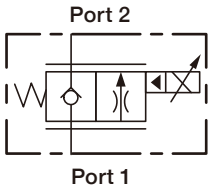
DIMENSION

(UNIT : mm)



Model	a	b	c	d
SFPK-03	41.4	22.2	105.4	1.00-14UNS-2B
SFPK-06	62	31.8	94.7	M36*2 -6H

SYMBOLS



ORDER CODES

SFPK - 03 - T5A - D N M - DR 24

1	Model Name	SFPK	normally closed, with check
2	Capacity (l/min)	03	80
		06	160
3	Cavity	T5A, T16A	
4	Flow Range (l/min)	D	SFPK-03 : 0 ~ 80
		C	SFPK-06 : 0 ~ 160
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	M	manual override
7	Connector (coil)	DG	ISO/DIN43650
		DR	Deutsch DT04-2P
8	Voltage (coil)	12	12 VDC
		24	24 VDC

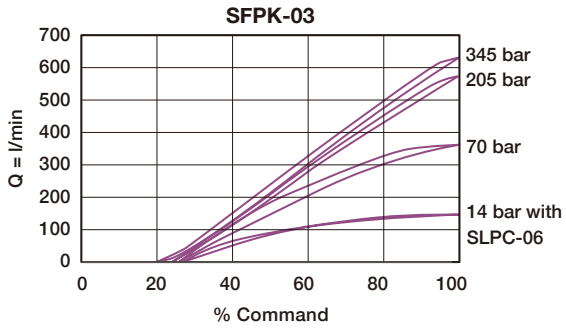
MODEL SPEC.

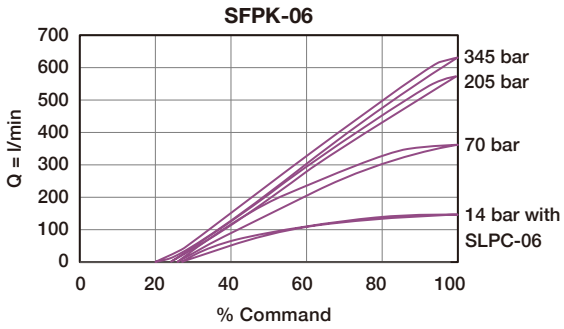
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Leakage	Installation Torque (Nm)
SFPK-03	T5A	80	350	less than 20 cc/min	60/70
SFPK-06	T16A	160			200/215

Model	Hysteresis	Max. Current	Power Consumption (watts)	Body's Weight (kg)	Coil's Weight (kg)
SFPK-03	5%	1150mA@12VDC 590mA@24VDC	22	0.4	0.23
SFPK-06				0.6	0.23

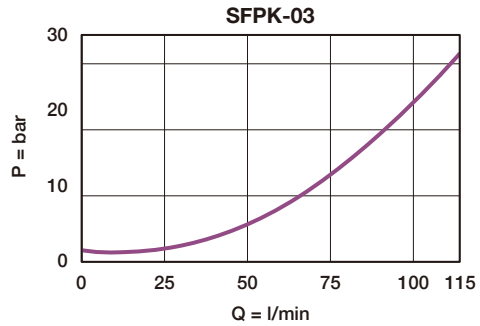
PERFORMANCE CURVES

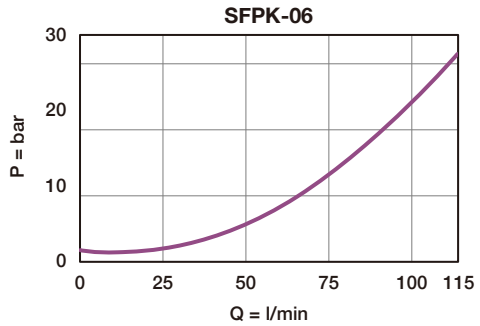
▸ Flow vs. Command @14bar





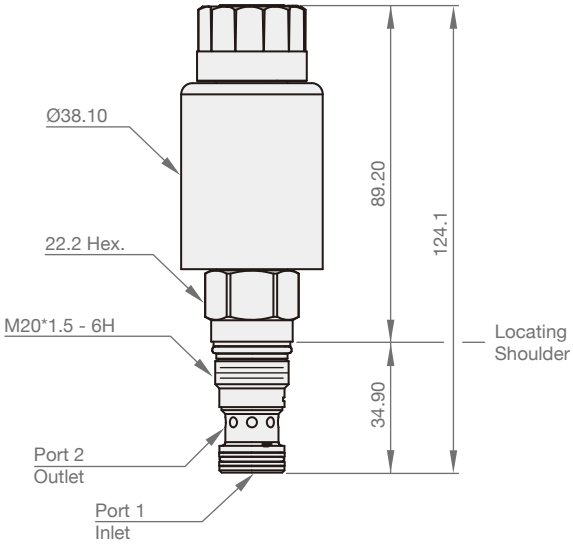
▸ Flow vs. Pressure Differential



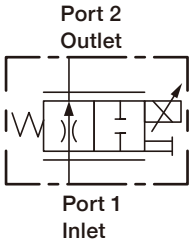


SFPH

DIMENSION (UNIT : mm)



SYMBOLS



ORDER CODES

SFPH - 02 - T13A - C N M - DG 24

1	Model Name	SFPH	normally open
2	Capacity (l/min)	02	28
3	Cavity	T13A	
4	Flow Range (l/min)	C	1 ~ 28
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	M	manual override
7	Connector (coil)	DG	ISO/DIN43650
		DR	Deutsch DT04-2P
8	Voltage (coil)	12	12 VDC
		24	24 VDC

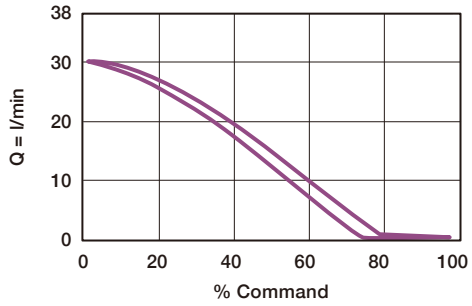
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Leakage	Installation Torque (Nm)
SFPH-02	T13A	28	350	less than 100 cc/min	45/50

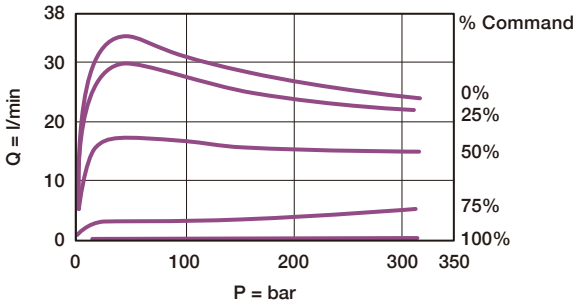
Model	Hysteresis	Max. Current	Power Consumption (watts)	Body's Weight (kg)	Coil's Weight (kg)
SFPH-02	5%	1150mA@12VDC 590mA@24VDC	22	0.27	0.23

PERFORMANCE CURVES

▸ **Flow vs. Command @14bar**



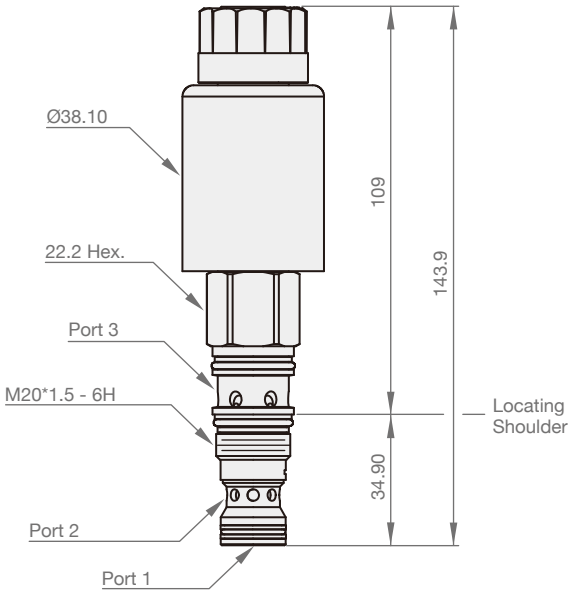
▸ **Flow vs. Pressure Differential**



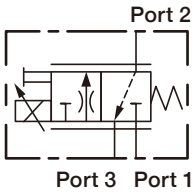
SFM

DIMENSION

(UNIT : mm)



SYMBOLS



ORDER CODES

SFM | A-02 | - | T11A | - | D | N | M | - | DG | 24

1 2 3 4 5 6 7 8

1	Model Name	SFM	
2	Capacity (l/min)	A-02	34
		B-02	23
3	Cavity	T11A	
4	Flow Range (l/min)	D	0.4 ~ 34
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	M	manual override
7	Connector (coil)	DG	ISO/DIN43650
		DR	Deutsch DT04-2P
8	Voltage (coil)	12	12 VDC
		24	24 VDC

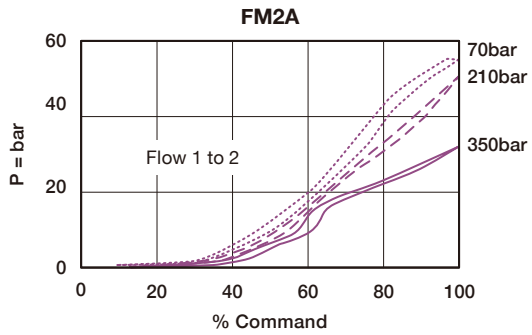
MODEL SPEC.

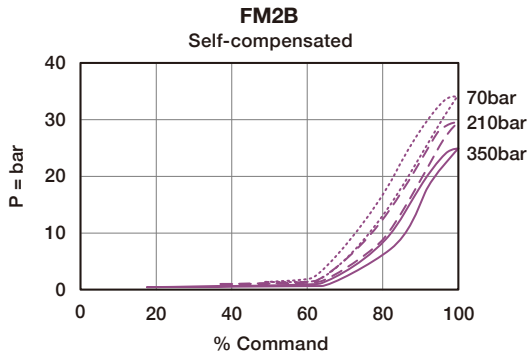
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Leakage	Installation Torque (Nm)
SFMA-02	T11A	34	350	less than 100 cc/min	40/50
SFMB-02		23			

Model	Hysteresis	Max. Current	Power Consumption (watts)	Body's Weight (kg)	Coil's Weight (kg)
SFMA-02	5%	1150mA@12VDC 590mA@24VDC	22	0.28	0.23
SFMB-02					

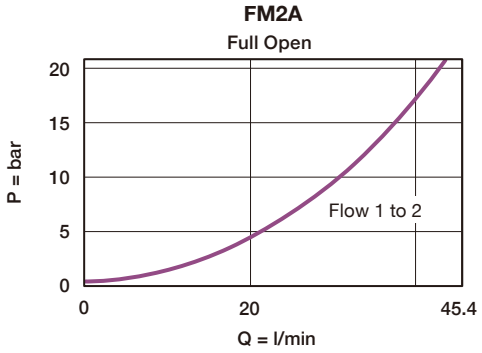
PERFORMANCE CURVES

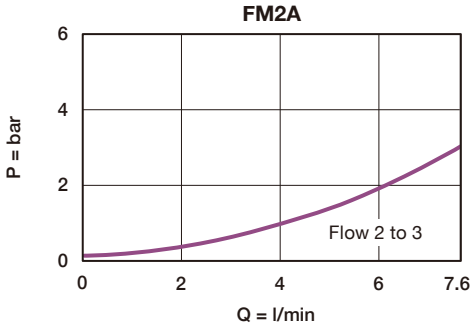
▸ Flow vs. Command

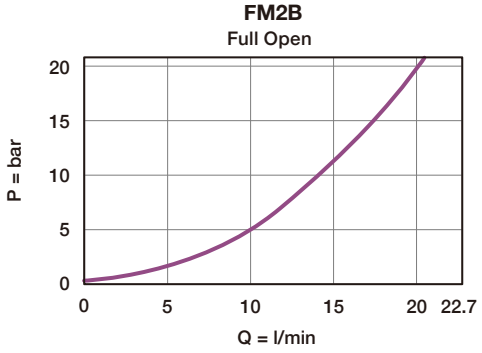


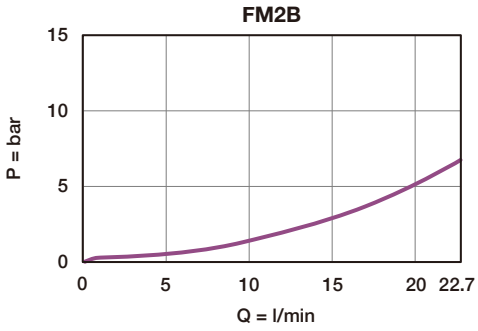


▸ Pressure vs. Flow





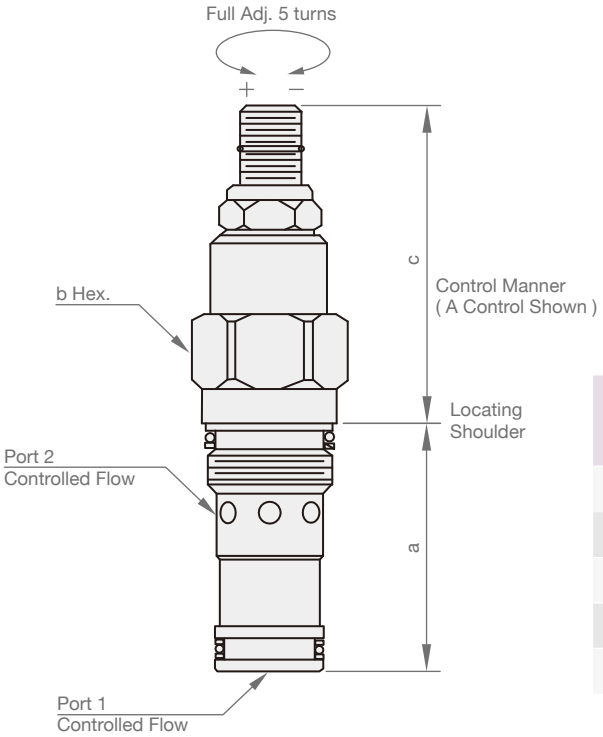




SNFC

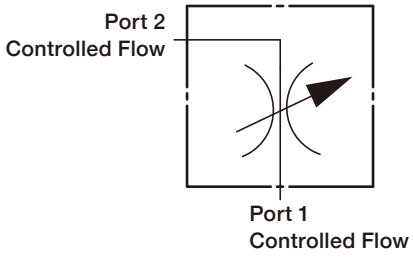
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SNFC-01	30	19	24.8	30.8
SNFC-02	34.9	22.2	58	64
SNFC-03	41.1	28.6	67	73
SNFC-06	61.9	31.8	73	79
SNFC-08	79.4	41.3	84	90

SYMBOLS



ORDER CODES

SNFC - 02 - T13A - C N A

1 2 3 4 5 6

1	Model Name	SNFC	
2	Valve Size	01, 02, 03, 06, 08	
3	Cavity	T162A, T13A, T5A, T16A, T18A	
4	Max. Orifice	C	T162A : 4mm, T13A : 4.8mm
		A	T5A : 6.3mm
		E	T16A : 9.6mm
		G	T18A : 14.2mm
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	A	adjustable screw
		B	control knob

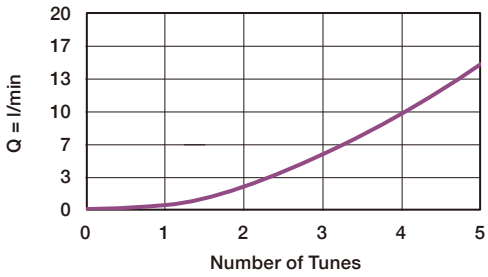
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SNFC-01	T162A	18.9	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.07
SNFC-02	T13A	25	350	40/50		0.14
SNFC-03	T5A	50	350	60/70		0.26
SNFC-06	T16A	100	350	200/215		0.55
SNFC-08	T18A	200	350	465/500		1.21

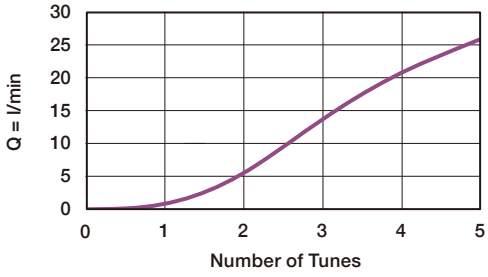
PERFORMANCE CURVES

▸ **Adjustment Sensitivity at 7 bar Differential**

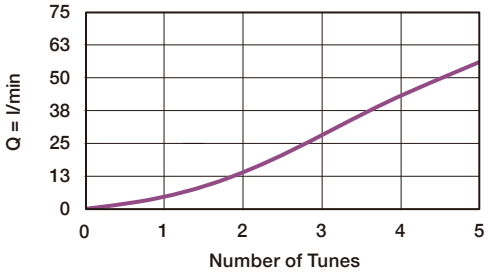
SNFC-01



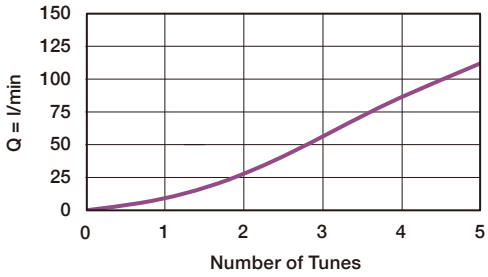
SNFC-02



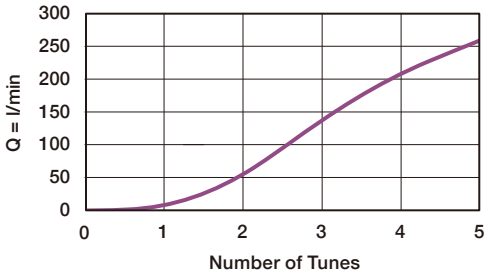
SNFC-03



SNFC-06



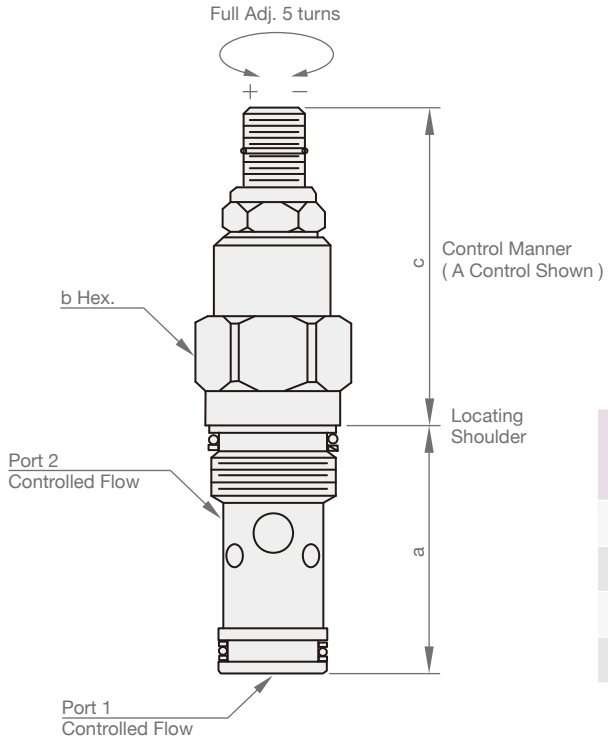
SNFC-08



SNFD

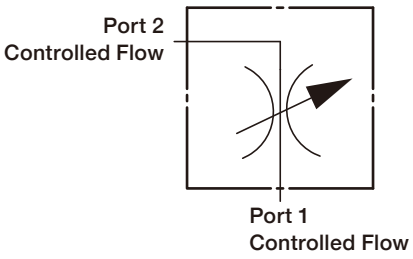
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SNFD-02	34.9	22.2	58	64
SNFD-03	41.1	28.6	67	73
SNFD-06	61.9	31.8	73	79
SNFD-08	79.4	41.3	84	90

SYMBOLS



ORDER CODES

SNF | D | - | 02 | - | T13A | - | F | N | A

1 2 3 4 5 6 7

1	Model Name	SNF	
2	Operation	D	high capacity
3	Valve Size	02, 03, 06, 08	
4	Cavity	T13A, T5A, T16A, T18A	
5	Max. Orifice	F	T13A : 8.4mm
		G	T5A : 12.7mm
		H	T16A : 17.5mm
		I	T18A : 21.6mm
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	A	adjustable screw
		B	control knob

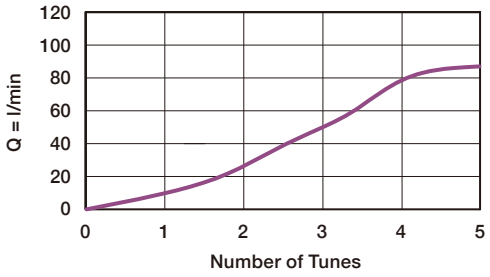
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SNFD-02	T13A	80	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.15
SNFD-03	T5A	160	350	60/70		0.28
SNFD-06	T16A	320	350	200/215		0.57
SNFD-08	T18A	500	350	465/500		1.24

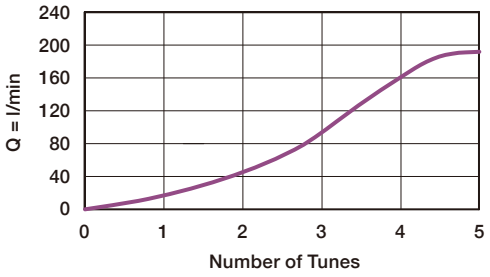
PERFORMANCE CURVES

▸ **Adjustment Sensitivity at 7 bar Differential**

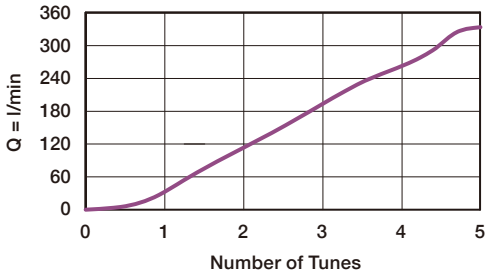
SNFD-02



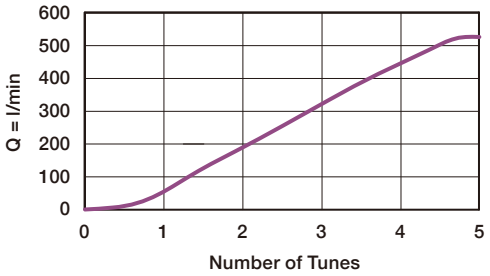
SNFD-03



SNFD-06



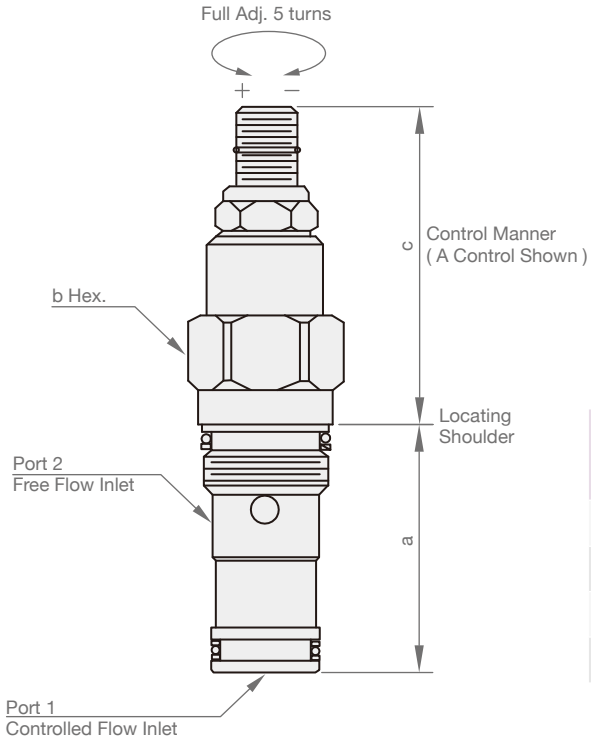
SNFD-08



SNCB

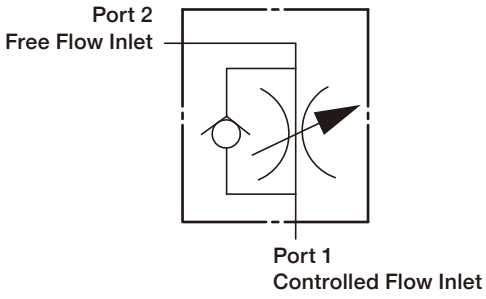
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SNCB-02	34.9	22.2	58	64
SNCB-03	41.1	28.6	67	73
SNCB-06	61.9	31.8	73	79
SNCB-08	79.4	41.3	84	90

SYMBOLS



ORDER CODES

SNCB - 02 - T13A - C N A

(1) (2) (3) (4) (5) (6)

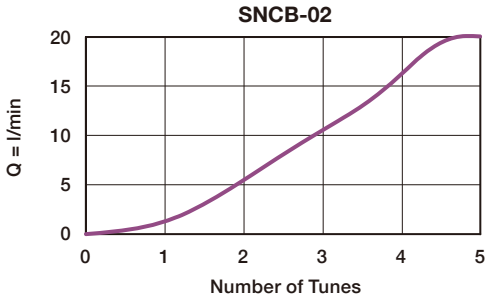
(1) ▸	Model Name	SNCB	
(2) ▸	Valve Size	02, 03, 06, 08	
(3) ▸	Cavity & Max. Orifice	T13A	4.8mm
		T5A	6.3mm
		T16A	9.6mm
		T18A	14.2mm
(4) ▸	Cracking Pressure	A	0.3 bar
		C	2.0 bar
		E	5.0 bar
(5) ▸	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
(6) ▸	Control Manner	A	adjustable screw
		B	control knob

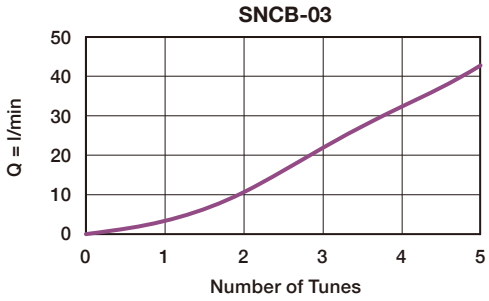
MODEL SPEC.

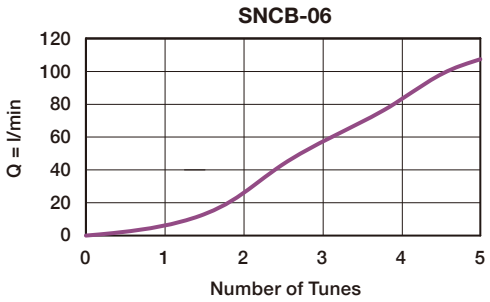
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SNCB-02	T13A	25	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.14
SNCB-03	T5A	50	350	60/70		0.26
SNCB-06	T16A	100	350	200/215		0.58
SNCB-08	T18A	200	350	465/500		1.23

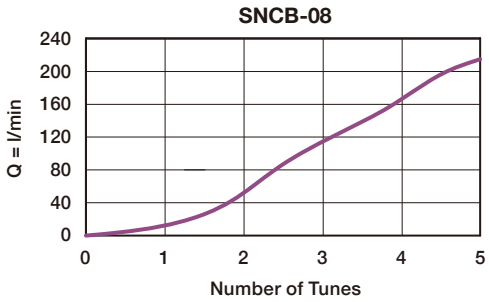
PERFORMANCE CURVES

▸ **Adjustment Sensitivity at 7 bar Differential**





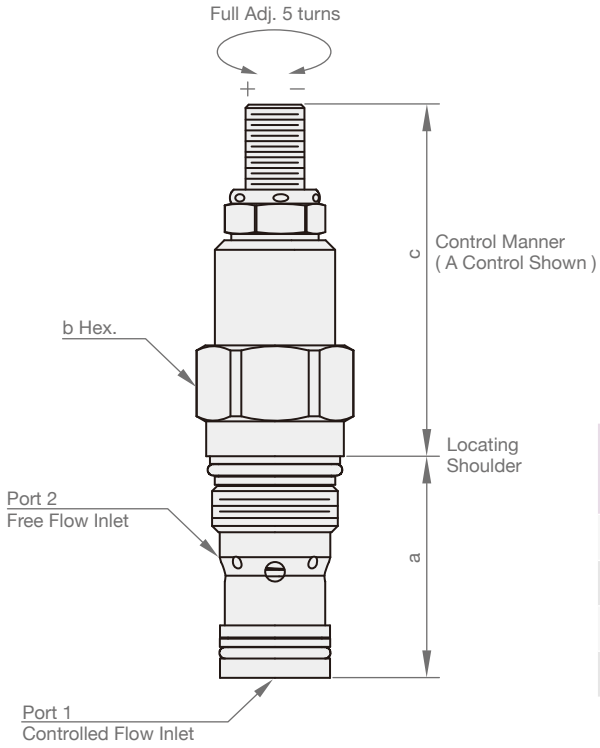




SFD

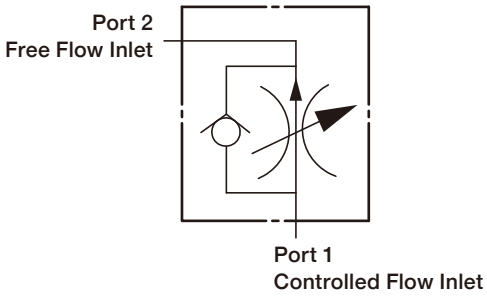
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SFDA-02	34.9	22.2	58	64
SFDB-03	41.1	28.6	67	73
SFDA-06	61.9	31.8	73	79
SFDA-08	79.4	41.3	84	90

SYMBOLS



ORDER CODES

SFDA - 02 - T13A - A N A

(1) (2) (3) (4) (5) (6)

(1)	Model Name		SFDA, SFDB
(2)	Valve Size		02, 03, 06, 08
(3)	Cavity		T13A, T5A, T16A, T18A
(4)	Adjustable Range	A	A-02 : 0.4 ~ 23 l/min B-03 : 0.4 ~ 45 l/min A-06 : 1.0 ~ 95 l/min A-08 : 1.0 ~ 200 l/min
(5)	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
(6)	Control Manner	A	adjustable screw
		B	control knob

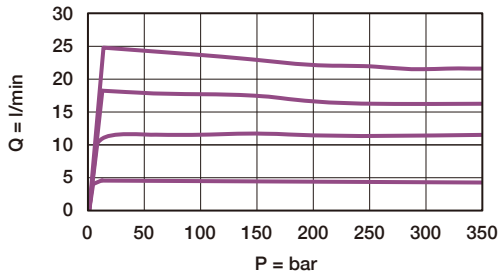
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SFDA-02	T13A	23	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.14
SFDB-03	T5A	45	350	60/70		0.28
SFDA-06	T16A	95	350	200/215		0.55
SFDA-08	T18A	200	350	465/500		1.23

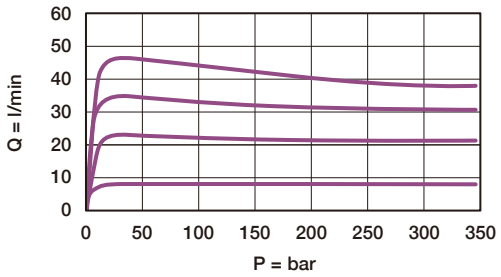
PERFORMANCE CURVES

▸ **Typical Performance**

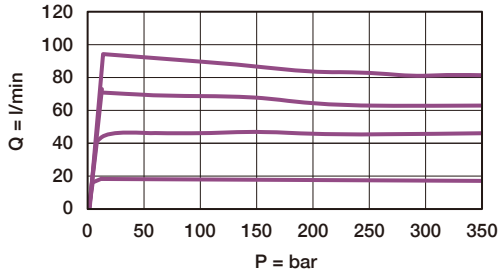
SFDA-02



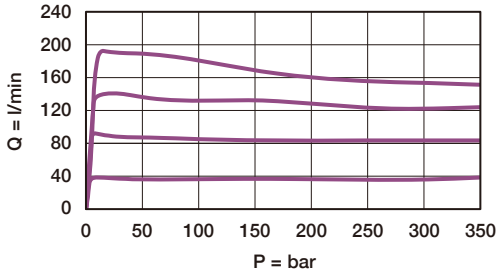
SFDB-03



SFDA-06



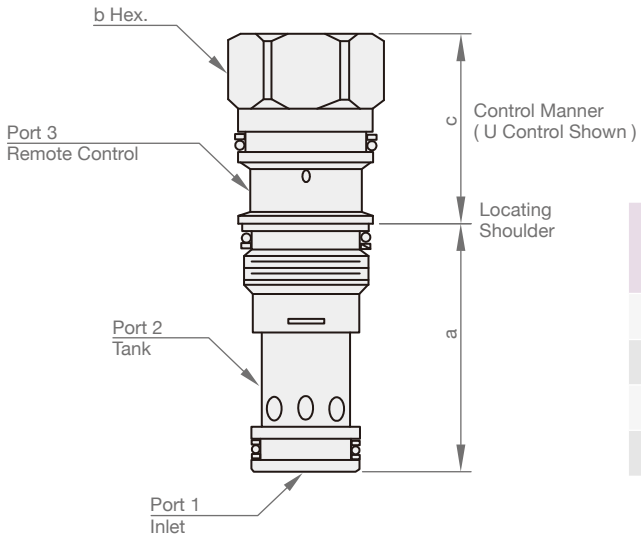
SFDA-08



SLRA

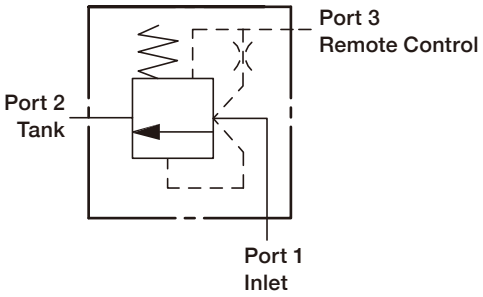
DIMENSION

(UNIT : mm)



Model	a	b	c	
			U	A
SLRA-02	34.9	22.2	31	64
SLRA-03	34.9	28.6	35	72
SLRA-06	46.0	31.8	46	84
SLRA-08	63.5	41.3	59	100

SYMBOLS



ORDER CODES

SLR	A	-	02	-	T11A	-	D	N	U
1	2		3		4		5	6	7

1	Model Name	SLR	
2	Type	A	internal pilot
3	Valve Size	02, 03, 06, 08	
4	Cavity	T11A, T2A, T17A, T19A	
5	Cracking Pressure	D	3.5 bar
		F	7.0 bar
		G	10.0 bar
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	U	unadjustable
		A	adjustable screw

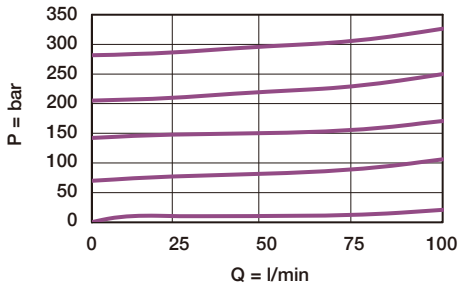
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SLRA-02	T11A	60	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.12
SLRA-03	T2A	120	350	60/70		0.22
SLRA-06	T17A	240	350	200/215		0.50
SLRA-08	T19A	480	350	465/500		1.15

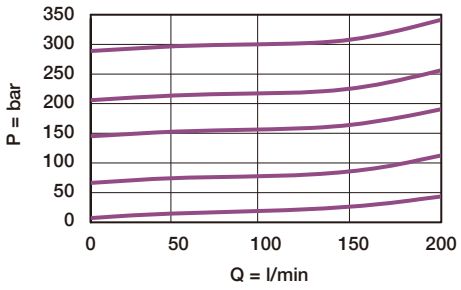
PERFORMANCE CURVES

▸ **Typical Pressure Drop**

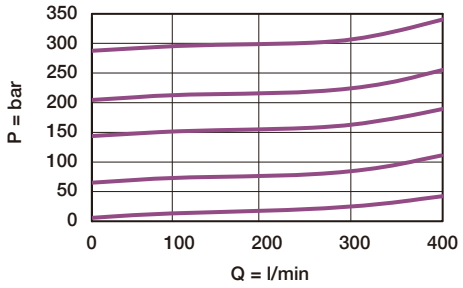
SLRA-02



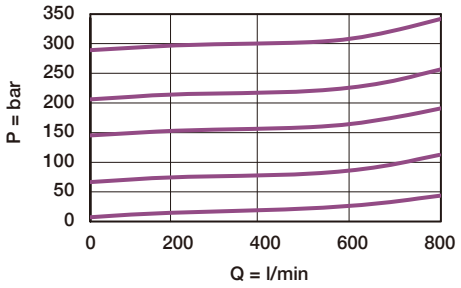
SLRA-03



SLRA-06



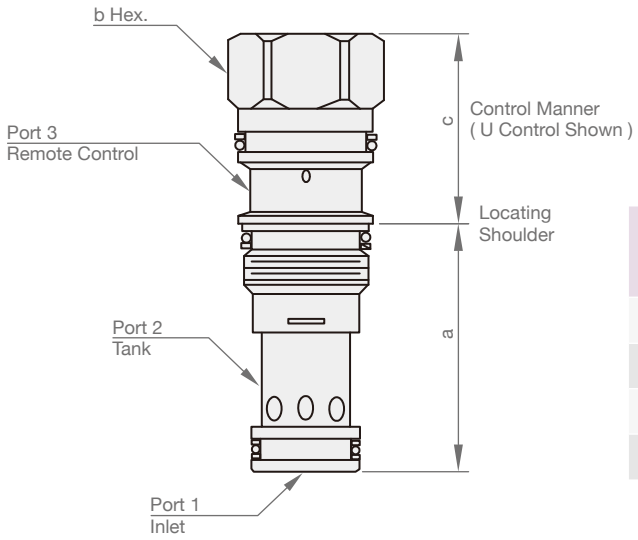
SLRA-08



SLRC

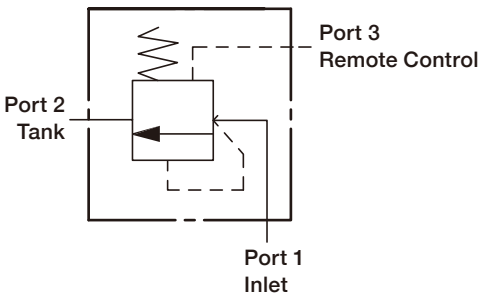
DIMENSION

(UNIT : mm)



Model	a	b	c	
			U	A
SLRC-02	34.9	22.2	31	64
SLRC-03	34.9	28.6	35	72
SLRC-06	46.0	31.8	46	84
SLRC-08	63.5	41.3	59	100

SYMBOLS



ORDER CODES

SLR | C | - | 02 | - | T11A | - | D | N | U

1	Model Name	SLR	
2	Type	C	external pilot
3	Valve Size	02, 03, 06, 08	
4	Cavity	T11A, T2A, T17A, T19A	
5	Cracking Pressure	D	3.5 bar
		F	7.0 bar
		G	10.0 bar
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	U	unadjustable
		A	adjustable screw

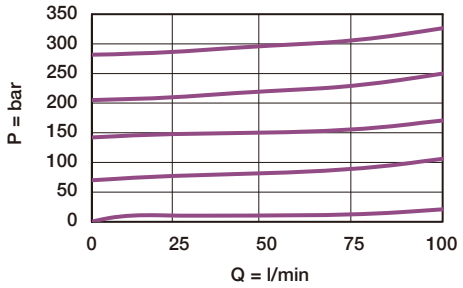
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SLRC-02	T11A	60	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.12
SLRC-03	T2A	120	350	60/70		0.22
SLRC-06	T17A	240	350	200/215		0.50
SLRC-08	T19A	480	350	465/500		1.15

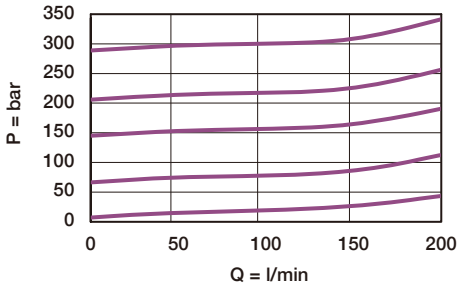
PERFORMANCE CURVES

▸ **Typical Pressure Drop**

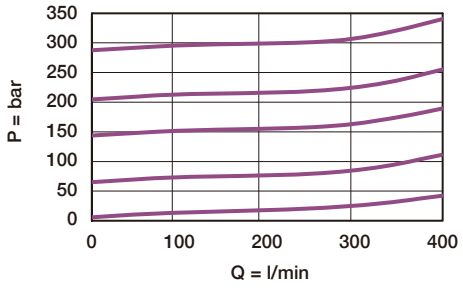
SLRC-02



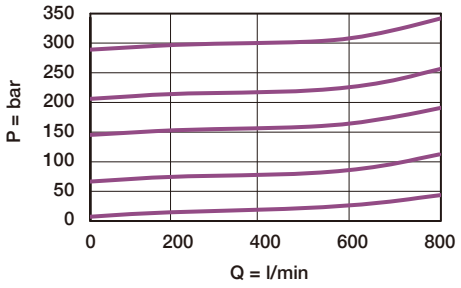
SLRC-03



SLRC-06



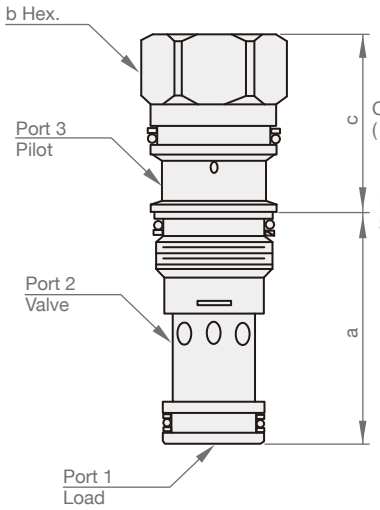
SLRC-08



SCKA

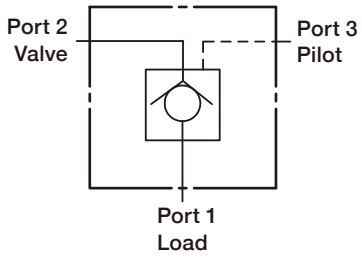
DIMENSION

(UNIT : mm)



Model	a	b	c	
			U	A
SCKA-02	34.9	22.2	31	64
SCKA-03	34.9	28.6	35	72
SCKA-06	46.0	31.8	46	84
SCKA-08	63.5	41.3	59	100

SYMBOLS



Pilot Ratio = 3:1

ORDER CODES

SCK | A | - | 02 | - | T11A | - | C | N | U

1	Model Name	SCK	
2	Pilot Version	A	bleed through pilot & POM seat
3	Valve Size	02, 03, 06, 08	
4	Cavity	T11A, T2A, T17A, T19A	
5	Cracking Pressure	A	0.3 bar
		C	2.0 bar
		E	5.0 bar
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	U	unadjustable
		A	adjustable screw

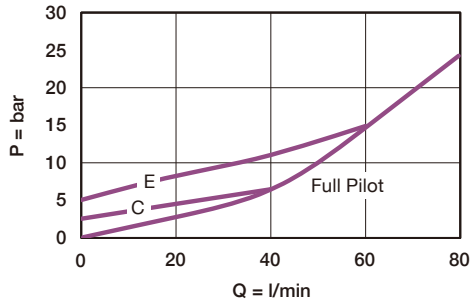
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCKA-02	T11A	60	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.13
SCKA-03	T2A	120	350	60/70		0.24
SCKA-06	T17A	240	350	200/215		0.53
SCKA-08	T19A	480	350	465/500		1.16

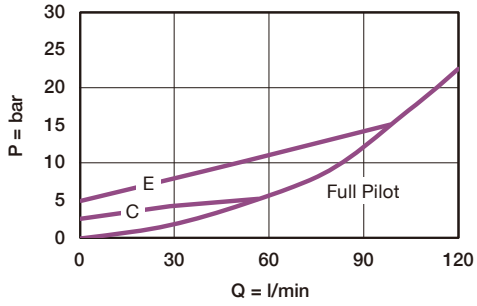
PERFORMANCE CURVES

▸ **Typical Pressure Drop**

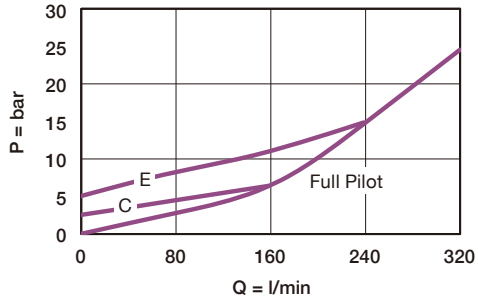
SCKA-02



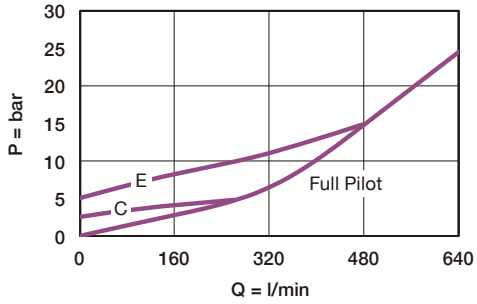
SCKA-03



SCKA-06



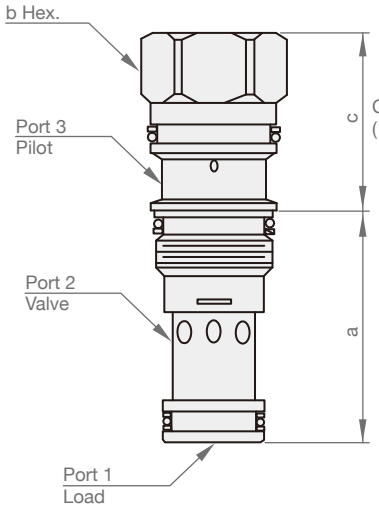
SCKA-08



SCKB

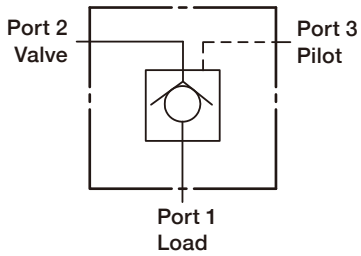
DIMENSION

(UNIT : mm)



Model	a	b	c	
			U	A
SCKB-01	31	19	32	-
SCKB-02	34.9	22.2	31	64
SCKB-03	34.9	28.6	35	72
SCKB-06	46.0	31.8	46	84
SCKB-08	63.5	41.3	59	100

SYMBOLS



Pilot Ratio = 3:1

ORDER CODES

SCK | B | - | 02 | - | T11A | - | C | N | U

1 2 3 4 5 6 7

1	Model Name	SCK	
2	Pilot Version	B	bleed through pilot
3	Valve Size	01, 02, 03, 06, 08	
4	Cavity	T163A, T11A, T2A, T17A, T19A	
5	Cracking Pressure	A	0.3 bar
		C	2.0 bar
		E	5.0 bar
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	U	unadjustable
		A	adjustable screw

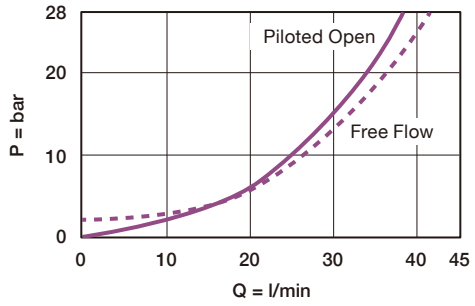
PERFORMANCE CURVES

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCKB-01	T163A	30	350	35/40	-35 ~ 100°C (-31 ~ 212°F)	0.13
SCKB-02	T11A	60	350	40/50		0.10
SCKB-03	T2A	120	350	60/70		0.24
SCKB-06	T17A	240	350	200/215		0.53
SCKB-08	T19A	480	350	465/500		1.16

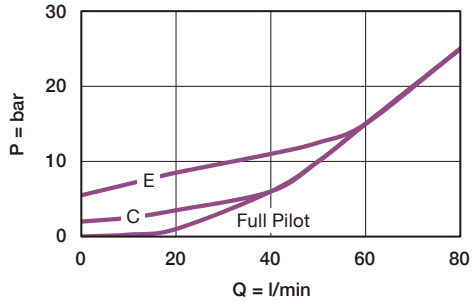
MODEL SPEC.

▸ **Typical Pressure Drop**

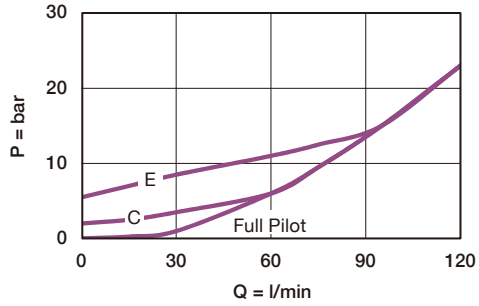
SCKB-01



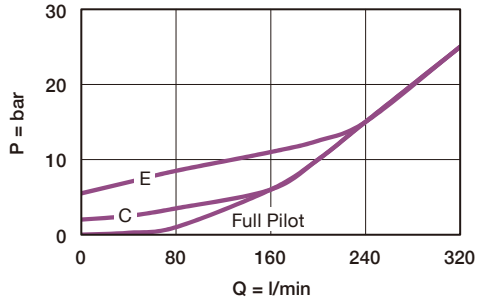
SCKB-02



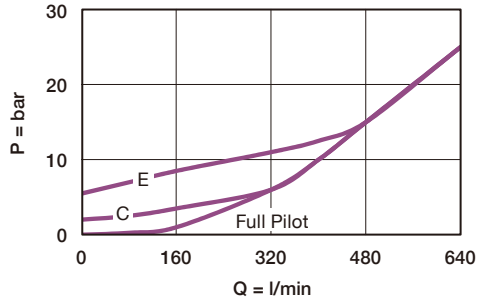
SCKB-03



SCKB-06



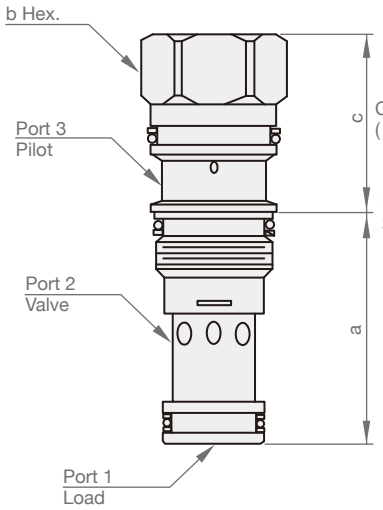
SCKB-08



SCKC

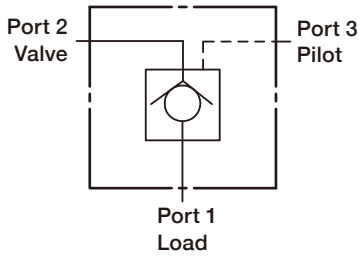
DIMENSION

(UNIT : mm)



Model	a	b	c	
			U	A
SCKC-02	34.9	22.2	31	64
SCKC-03	34.9	28.6	35	72
SCKC-06	46.0	31.8	46	84
SCKC-08	63.5	41.3	59	100

SYMBOLS



Pilot Ratio = 3:1

ORDER CODES

SCK | C | - | 02 | - | T11A | - | C | N | U

1 2 3 4 5 6 7

1	Model Name	SCK	
2	Pilot Version	C	sealed pilot & POM seat
3	Valve Size	02, 03, 06, 08	
4	Cavity	T11A, T2A, T17A, T19A	
5	Cracking Pressure	A	0.3 bar
		C	2.0 bar
		E	5.0 bar
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	U	unadjustable
		A	adjustable screw

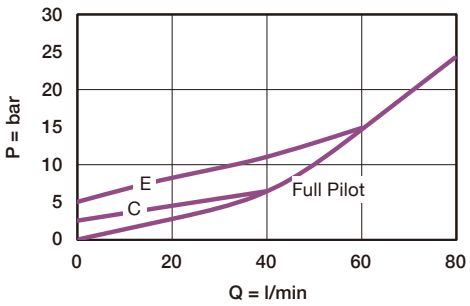
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCKC-02	T11A	60	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.13
SCKC-03	T2A	120	350	60/70		0.24
SCKC-06	T17A	240	350	200/215		0.53
SCKC-08	T19A	480	350	465/500		1.16

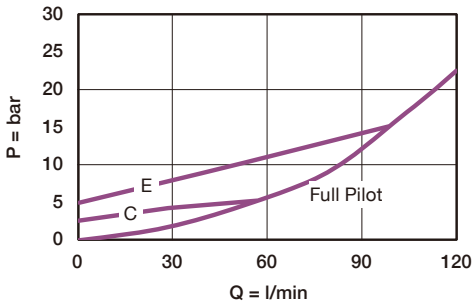
PERFORMANCE CURVES

▸ **Typical Pressure Drop**

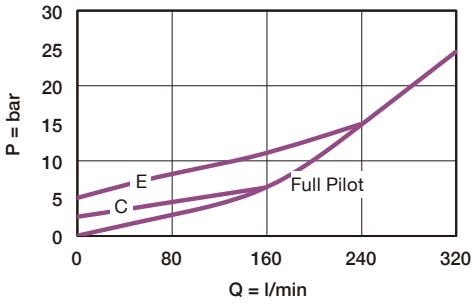
SCKC-02



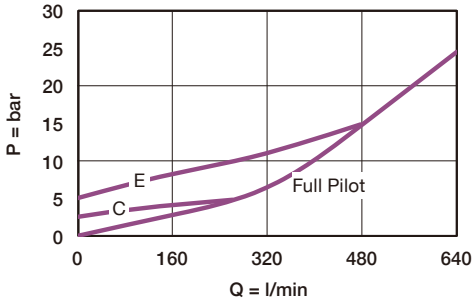
SCKC-03



SCKC-06



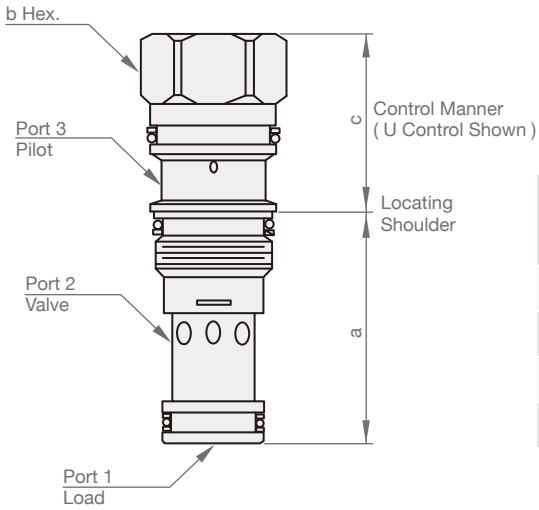
SCKC-08



SCKD

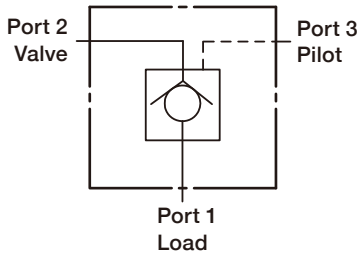
DIMENSION

(UNIT : mm)



Model	a	b	c	
			U	A
SCKD-02	34.9	22.2	31	64
SCKD-03	34.9	28.6	35	72
SCKD-06	46.0	31.8	46	84
SCKD-08	63.5	41.3	59	100

SYMBOLS



Pilot Ratio = 3:1

ORDER CODES

SCK | D | - | 02 | - | T11A | - | C | N | U

1 2 3 4 5 6 7

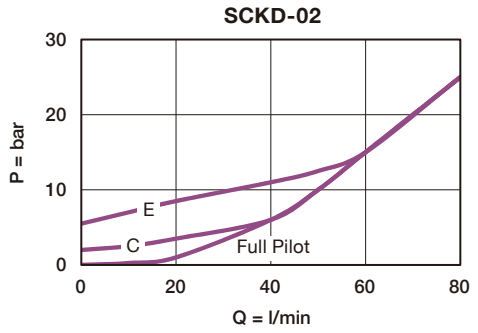
1 ▸	Model Name	SCK	
2 ▸	Pilot Version	D	sealed pilot
3 ▸	Valve Size	02, 03, 06, 08	
4 ▸	Cavity	T11A, T2A, T17A, T19A	
5 ▸	Cracking Pressure	A	0.3 bar
		C	2.0 bar
		E	5.0 bar
6 ▸	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7 ▸	Control Manner	U	unadjustable
		A	adjustable screw

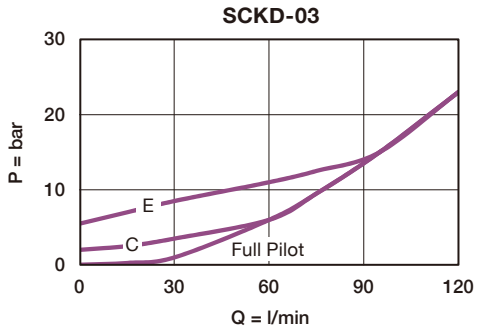
MODEL SPEC.

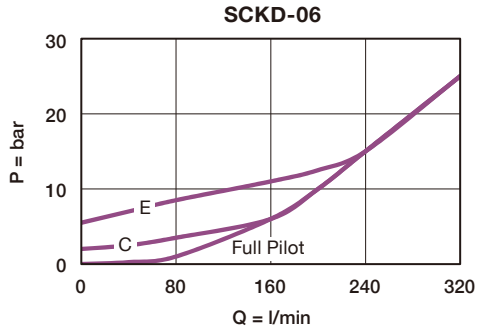
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCKD-02	T11A	60	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.13
SCKD-03	T2A	120	350	60/70		0.24
SCKD-06	T17A	240	350	200/215		0.53
SCKD-08	T19A	480	350	465/500		1.16

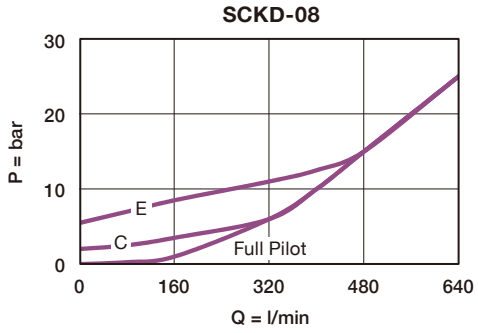
PERFORMANCE CURVES

▸ **Typical Pressure Drop**





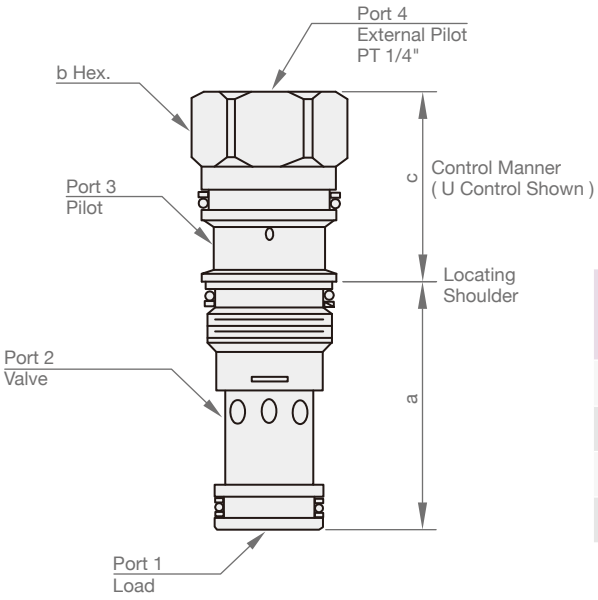




SCKF

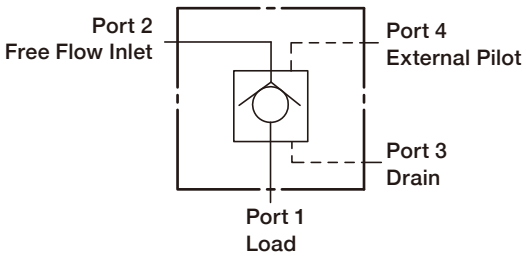
DIMENSION

(UNIT : mm)



Model	a	b	c	
			U	A
SCKF-02	34.9	22.2	31	64
SCKF-03	34.9	28.6	35	72
SCKF-06	46.0	31.8	46	84
SCKF-08	63.5	41.3	59	100

SYMBOLS



Pilot Ratio = 3:1

ORDER CODES

SCK | F | - | 02 | - | T11A | - | C | N | PN

1 2 3 4 5 6 7

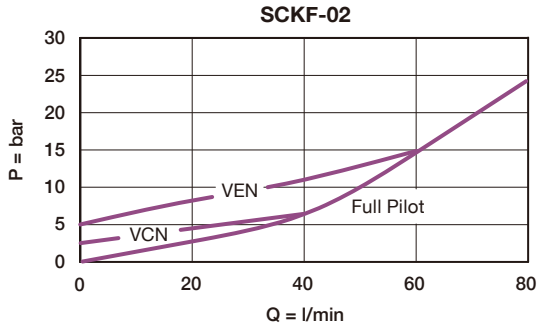
1	Model Name	SCK	
2	Pilot Version	F	external pilot
3	Valve Size	02, 03, 06, 08	
4	Cavity	T11A, T2A, T17A, T19A	
5	Cracking Pressure	A	0.3 bar
		C	2.0 bar
		E	5.0 bar
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	PN	external pilot port

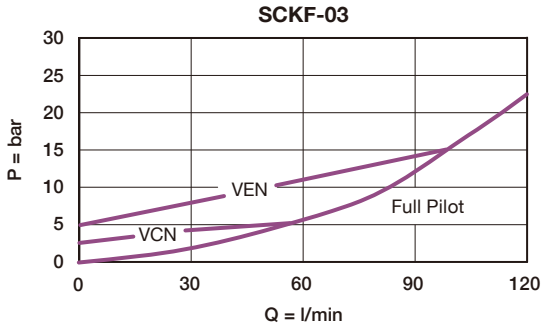
MODEL SPEC.

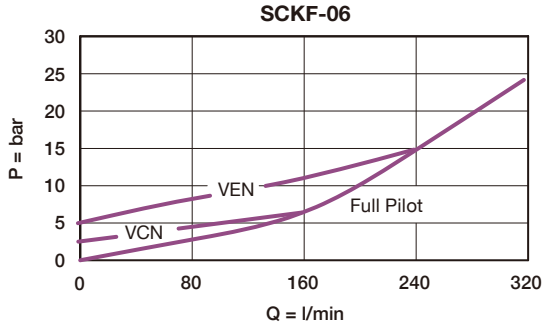
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCKF-02	T11A	60	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.13
SCKF-03	T2A	120	350	60/70		0.24
SCKF-06	T17A	240	350	200/215		0.53
SCKF-08	T19A	480	350	465/500		1.16

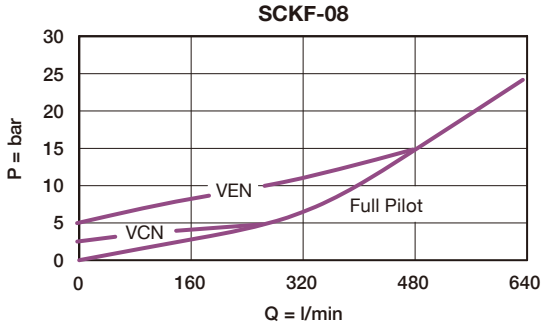
PERFORMANCE CURVES

▸ **Typical Pressure Drop**





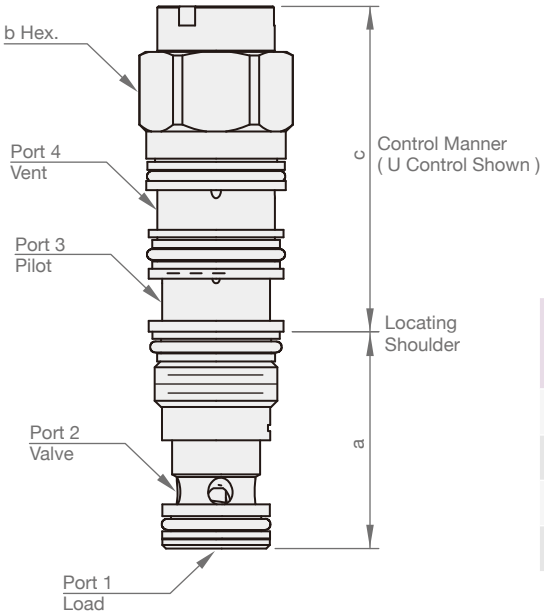




SCVV

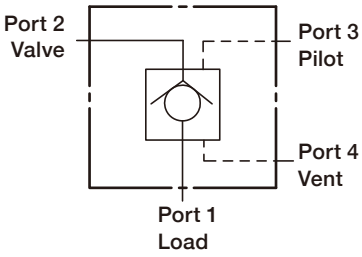
DIMENSION

(UNIT : mm)



Model	a	b	c	
			U	A
SCVV-02	35.1	22.2	53.3	59.4
SCVV-03	35.1	28.6	59.4	65.0
SCVV-06	46.0	31.8	71.4	77.0
SCVV-08	63.5	41.3	88.9	95.8

SYMBOLS



Pilot Ratio = 3:1

ORDER CODES

SCVV - 02 - T21A - C N U

(1) (2) (3) (4) (5) (6)

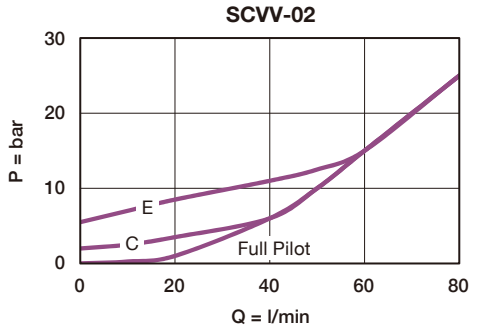
1	Model Name	SCVV	
2	Valve Size	02, 03, 06, 08	
3	Cavity	T21A, T22A, T23A, T24A	
5	Cracking Pressure	A	0.3 bar
		C	2.0 bar
		E	5.0 bar
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
4	Control Manner	U	standard pilot
		A	manual load release

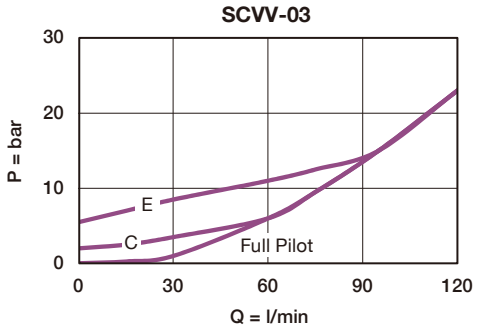
MODEL SPEC.

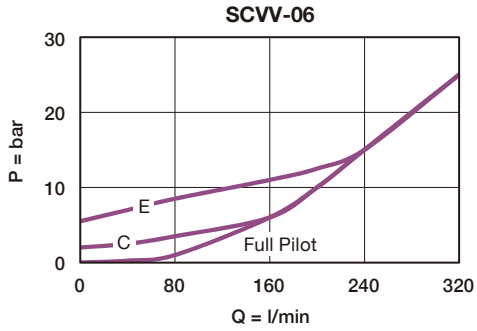
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCVV-02	T21A	60	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.18
SCVV-03	T22A	120	350	60/70		0.30
SCVV-06	T23A	240	350	200/215		0.68
SCVV-08	T24A	480	350	465/500		1.49

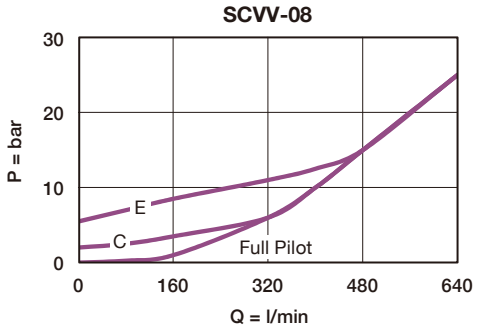
PERFORMANCE CURVES

▸ **Unloaded Pressure Drop**





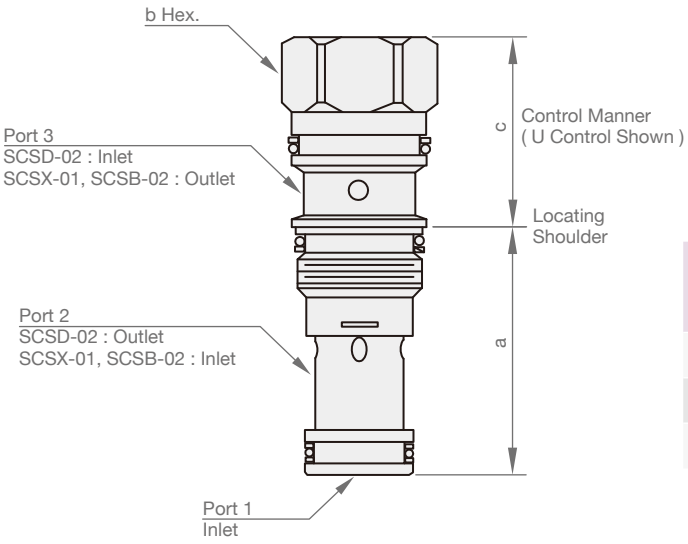




SCSX, SCSD, SCSB

DIMENSION

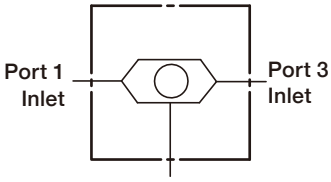
(UNIT : mm)



Model	a	b	c
			U
SCSX-01	30.6	19	32
SCSD-02	34.9	22.2	31
SCSB-02	34.9	22.2	31

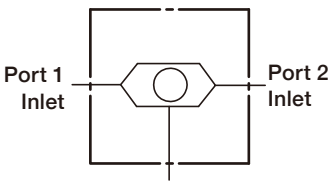
SYMBOLS

SCSX-01, SCSD-02



Signal at Port2

SCSB-02



Signal at Port3

ORDER CODES

SCS D - 02 - T11A - X N U

(1) (2) (3) (4) (5) (6) (7)

(1)	Model Name	SCS	
(2)	Operation	X	T163A, signal at port 2
		D	T11A, signal at port 2
		B	T11A, signal at port 3
(3)	Valve Size	01	SCSX-01
		02	SCSD-02, SCSB-02
(4)	Cavity	T163A, T11A	
(5)	Adjustment Range	X	unadjustable
(6)	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
(7)	Control Manner	U	unadjustable

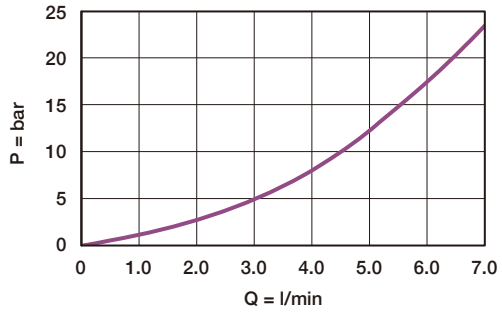
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCSX-01	T163A	6	350	35/40	-35 ~ 100°C (-31 ~ 212°F)	0.09
SCSD-02	T11A	10	350	40/50		0.12
SCSB-02	T11A	10	350	40/50		0.12

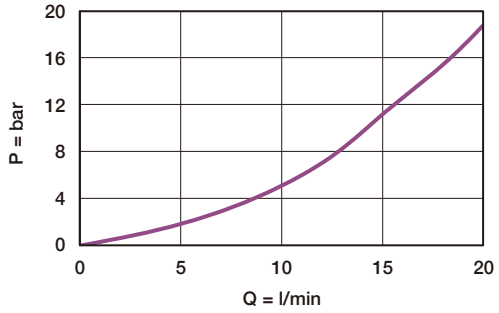
PERFORMANCE CURVES

▸ **Typical Pressure Drop**

SCSX-01



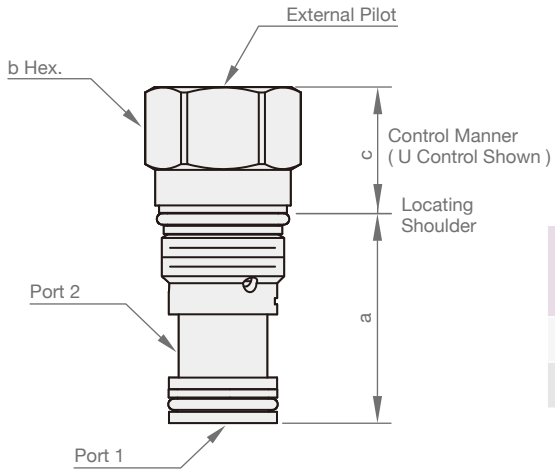
SCSD-02, SCSB-02



SCSA, SCSC

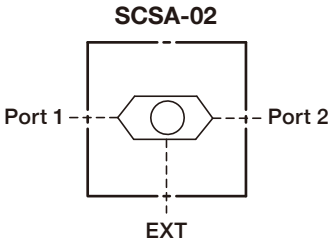
DIMENSION

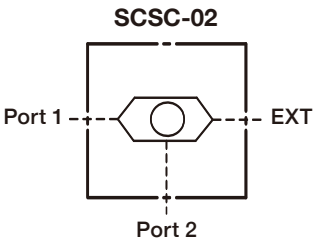
(UNIT : mm)



Model	a	b	c
			U
SCSA-02	34.9	22.2	19
SCSC-02	34.9	22.2	19

SYMBOLS





ORDER CODES

SCS | A | - | 02 | - | T13A | - | X | N | PS

1 2 3 4 5 6 7

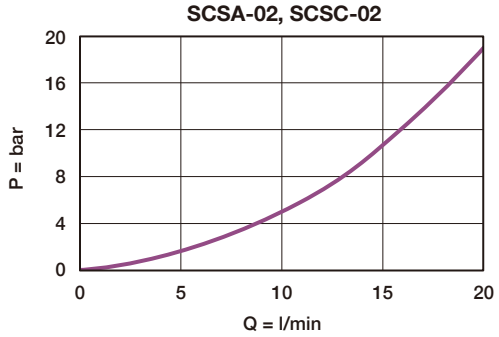
1	Model Name	SCS	
2	Operation	A	signal external
		C	signal at port 2
3	Valve Size	02	
4	Cavity	T13A	
5	Adjustment Range	X	unadjustable
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	PS	external 4-SAE port

MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCSA-02	T13A	10	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.1
SCSC-02	T13A	10	350	45/50		0.1

PERFORMANCE CURVES

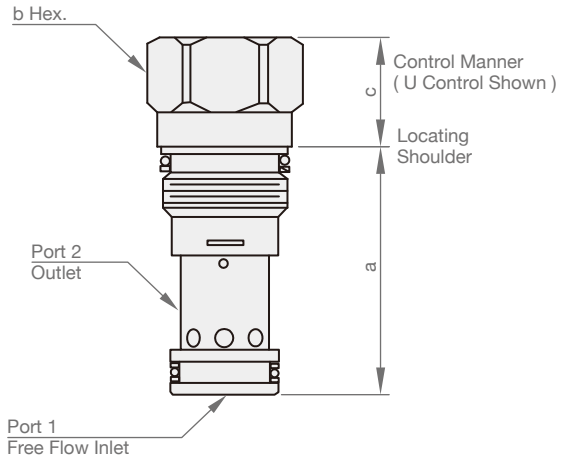
▸ **Typical Pressure Drop**



SCXA

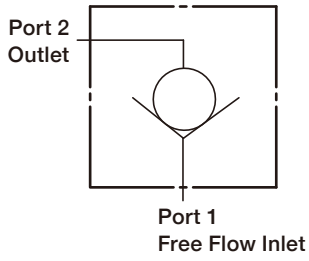
DIMENSION

(UNIT : mm)



Model	a	b	c
			U
SCXA-00	18.8	22.2	11.9
SCXA-01	30.4	19	20.6
SCXA-02	34.9	22.2	19
SCXA-03	41.1	28.6	18
SCXA-06	61.9	31.8	25
SCXA-08	79.4	41.3	31

SYMBOLS



ORDER CODES

SCX | A | - | 02 | - | T13A | - | C | N | U

1 2 3 4 5 6 7

1	Model Name	SCX	
2	Operation	A	free flow port1 to port2
3	Valve Size	00, 01, 02, 03, 06, 08	
4	Cavity	T8A, T162A, T13A, T5A, T16A, T18A	
5	Cracking Pressure	A	0.3 bar
		B	1.0 bar
		C	2.0 bar
		D	3.5 bar
		E	5.0 bar
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	U	unadjustable

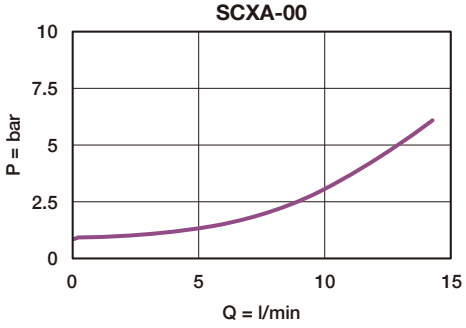
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCXA-00	T8A	20	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.05
SCXA-01	T162A	40	350	35/40		0.09
SCXA-02	T13A	80	350	40/50		0.12
SCXA-03	T5A	160	350	60/70		0.18
SCXA-06	T16A	320	350	200/215		0.42
SCXA-08	T18A	640	350	465/500		0.93

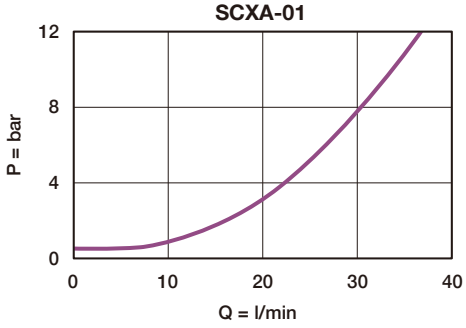
PERFORMANCE CURVES

▸ **Typical Pressure Drop**

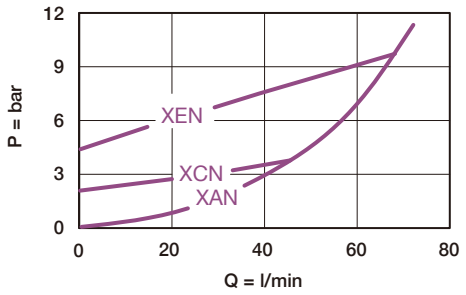
SCXA-00



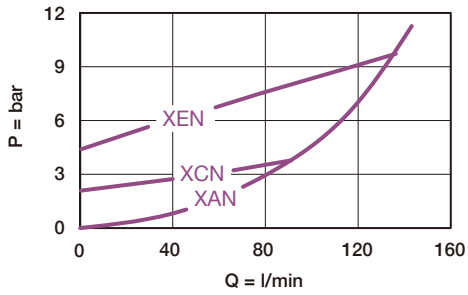
SCXA-01



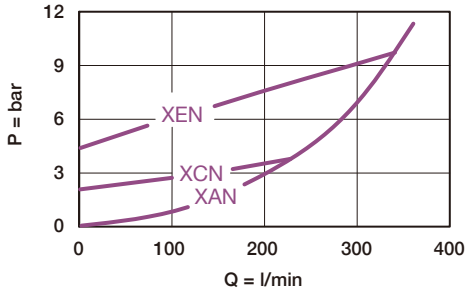
SCXA-02



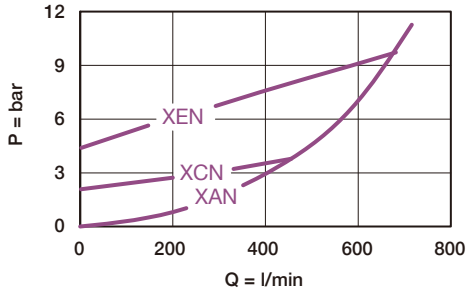
SCXA-03



SCXA-06



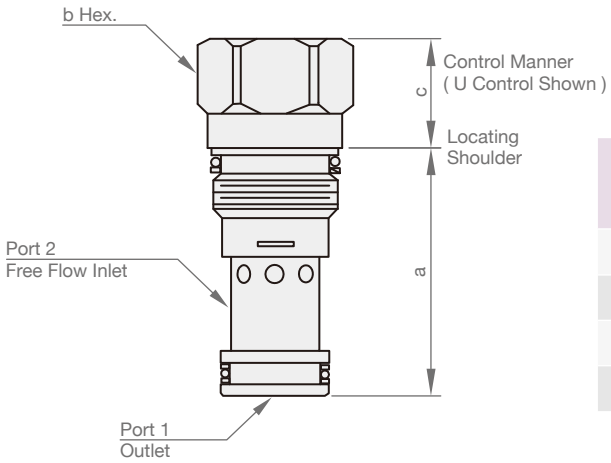
SCXA-08



SCXB

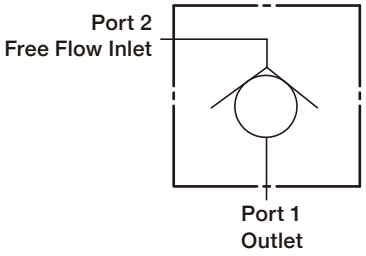
DIMENSION

(UNIT : mm)



Model	a	b	c
			U
SCXB-02	34.9	22.2	19
SCXB-03	41.1	28.6	18
SCXB-06	61.9	31.8	25
SCXB-08	79.4	41.3	31

SYMBOLS



ORDER CODES

SCX B - 02 - T13A - C N U

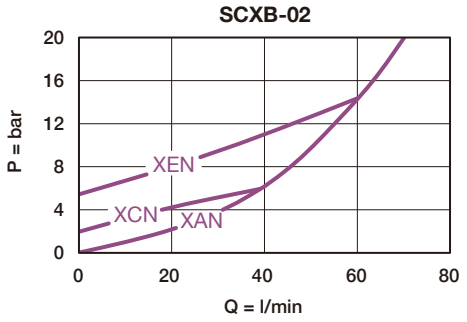
1	Model Name	SCX	
2	Operation	B	free flow por2 to port1, with POM seat
3	Valve Size	02, 03, 06, 08	
4	Cavity	T13A, T5A, T16A, T18A	
5	Cracking Pressure	A	0.3 bar
		B	1.0 bar
		C	2.0 bar
		D	3.5 bar
		E	5.0 bar
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	U	unadjustable

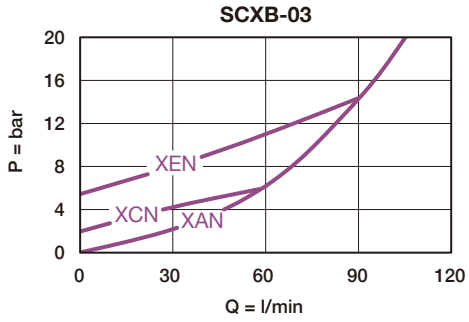
MODEL SPEC.

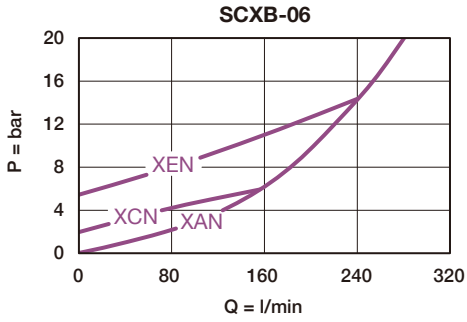
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCXB-02	T13A	60	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.12
SCXB-03	T5A	120	350	60/70		0.18
SCXB-06	T16A	240	350	200/215		0.42
SCXB-08	T18A	480	350	465/500		0.93

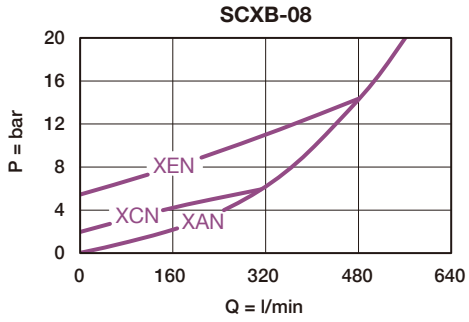
PERFORMANCE CURVES

▸ **Typical Pressure Drop**





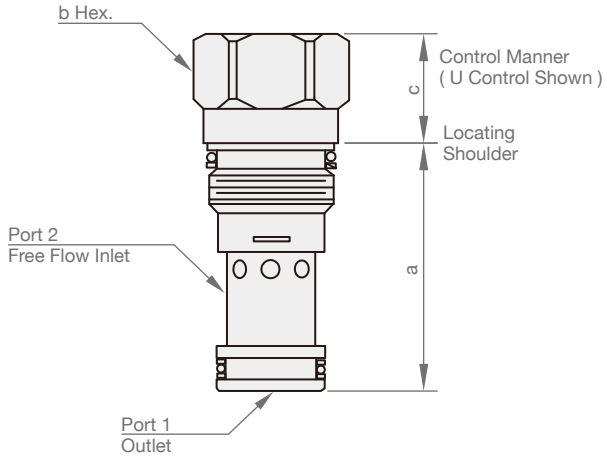




SCXD

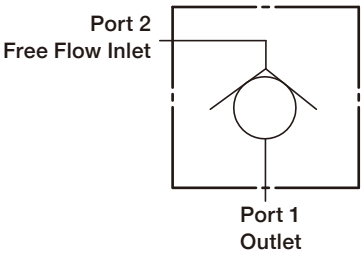
DIMENSION

(UNIT : mm)



Model	a	b	c
			U
SCXD-01	30.4	19	20.6
SCXD-02	34.9	22.2	19
SCXD-03	41.1	28.6	18
SCXD-06	61.9	31.8	25
SCXD-08	79.4	41.3	31

SYMBOLS



ORDER CODES

SCX D - 02 - T13A - C N U

1 2 3 4 5 6 7

1	Model Name	SCX	
2	Operation	D	free flow por2 to port1
3	Valve Size	01, 02, 03, 06, 08	
4	Cavity	T13A, T5A, T16A, T18A	
5	Cracking Pressure	A	0.3 bar
		B	1.0 bar
		C	2.0 bar
		D	3.5 bar
		E	5.0 bar
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	U	unadjustable

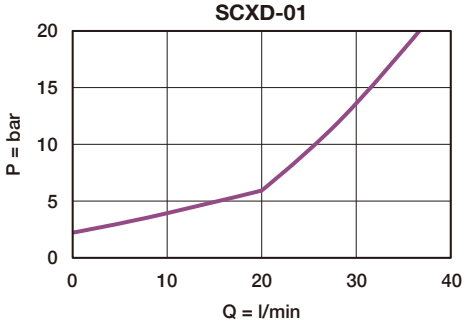
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCXD-01	T162A	30	350	35/40	-35 ~ 100°C (-31 ~ 212°F)	0.10
SCXD-02	T13A	60	350	40/50		0.12
SCXD-03	T5A	120	350	60/70		0.18
SCXD-06	T16A	240	350	200/215		0.42
SCXD-08	T18A	480	350	465/500		0.93

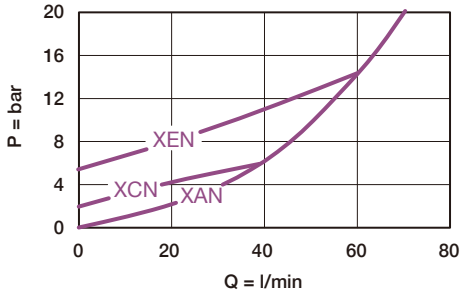
PERFORMANCE CURVES

▸ **Typical Pressure Drop**

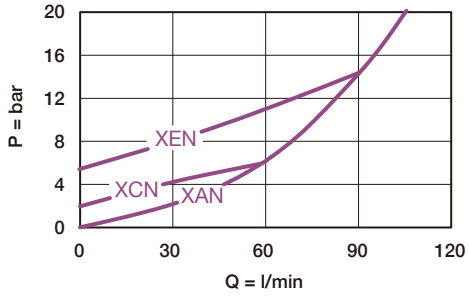
SCXD-01



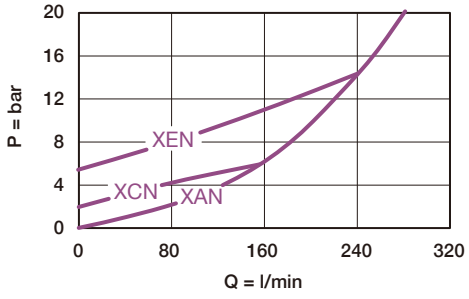
SCXD-02



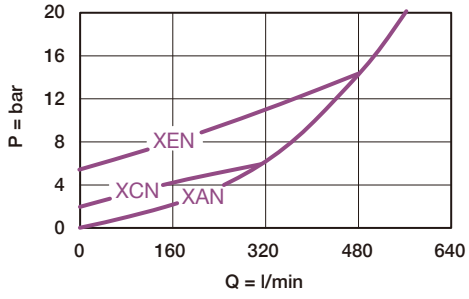
SCXD-03



SCXD-06



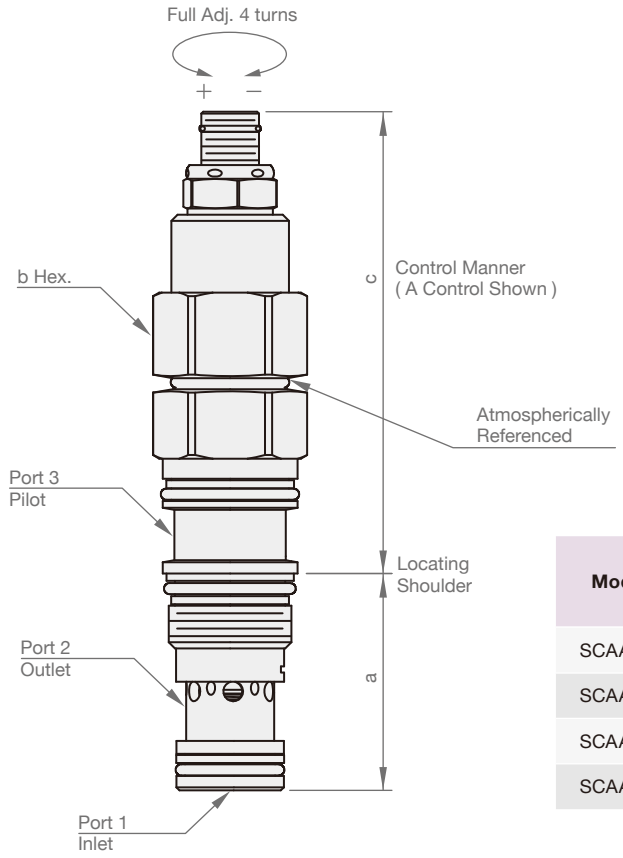
SCXD-08



SCAA

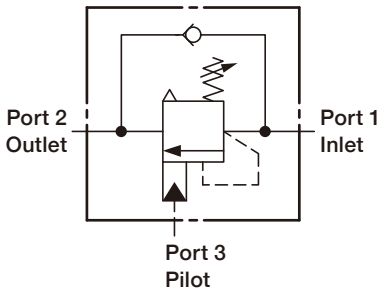
DIMENSION

(UNIT : mm)



Model	a	b	c
			A
SCAA-02	35.1	22.2	73.4
SCAA-03	35.1	28.6	83.6
SCAA-06	46.0	31.8	95.0
SCAA-08	63.5	41.3	116.3

SYMBOLS



ORDER CODES

SCA	A	-	02	-	T11A	-	I	N	A
1	2		3		4		5	6	7

1	Model Name	SCA	
2	Pilot Pressure	A	3:1
3	Valve Size	02, 03, 06, 08	
4	Cavity	T11A, T2A, T17A, T19A	
5	Adjustable Range	H	70 ~ 280 bar, 210 bar initially setting
		I	25 ~ 105 bar, 70 bar initially setting
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	A	adjustable screw

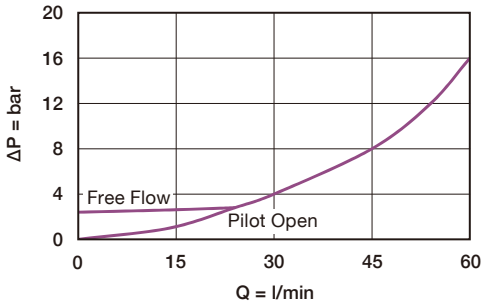
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCAA-02	T11A	60	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.20
SCAA-03	T2A	120	350	60/70		0.38
SCAA-06	T17A	240	350	200/215		0.74
SCAA-08	T19A	480	350	465/500		1.62

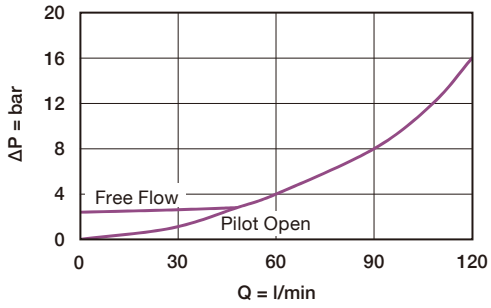
PERFORMANCE CURVES

▸ **Free Flow & Piloted Open Pressure Drop**

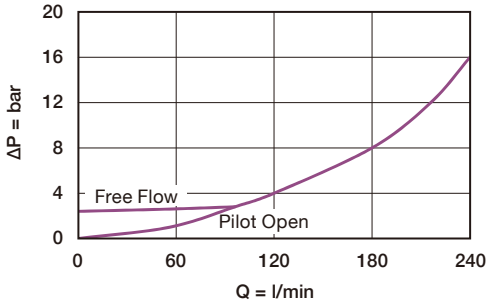
SCAA-02



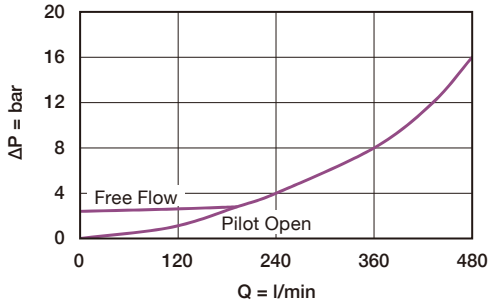
SCAA-03



SCAA-06



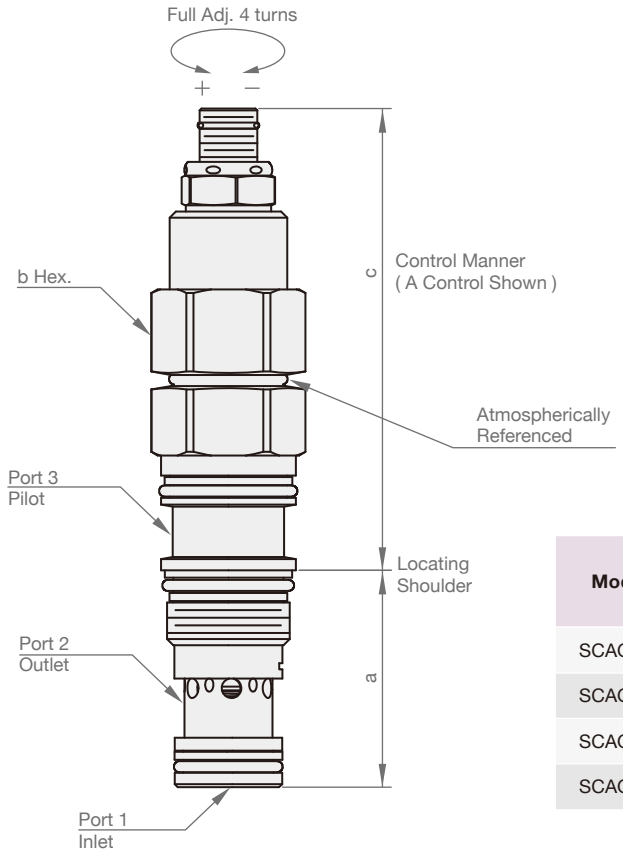
SCAA-08



SCAG

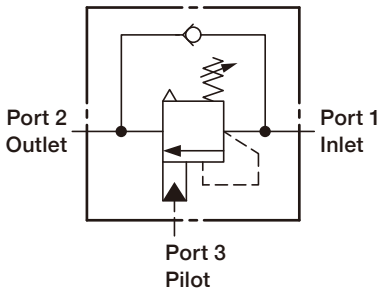
DIMENSION

(UNIT : mm)



Model	a	b	c
			A
SCAG-02	35.1	22.2	73.4
SCAG-03	35.1	28.6	83.6
SCAG-06	46.0	31.8	95.0
SCAG-08	63.5	41.3	116.3

SYMBOLS



ORDER CODES

SCA | G | - | 02 | - | T11A | - | G | N | A

1	Model Name	SCA	
2	Pilot Pressure	G	5:1
3	Valve Size	02, 03, 06, 08	
4	Cavity	T11A, T2A, T17A, T19A	
5	Adjustable Range	G	140 ~ 420 bar, 280 bar initially setting
		F	70 ~ 175 bar, 140 bar initially setting
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	A	adjustable screw

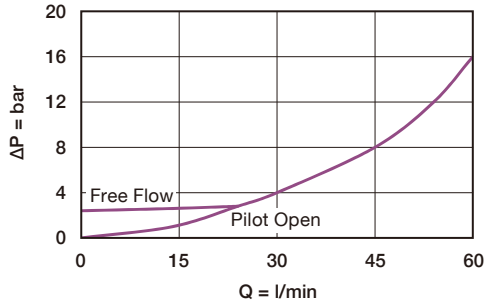
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCAG-02	T11A	60	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.20
SCAG-03	T2A	120	350	60/70		0.38
SCAG-06	T17A	240	350	200/215		0.74
SCAG-08	T19A	480	350	465/500		1.62

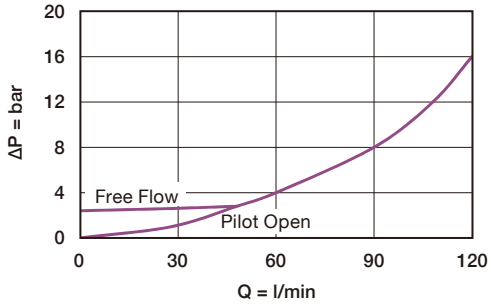
PERFORMANCE CURVES

▸ **Free Flow & Piloted Open Pressure Drop**

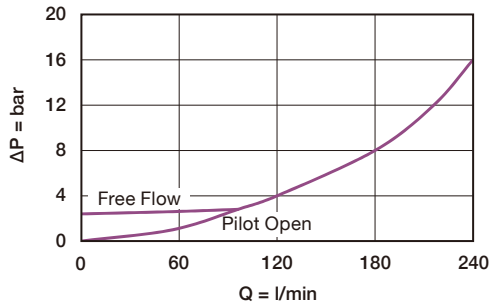
SCAG-02



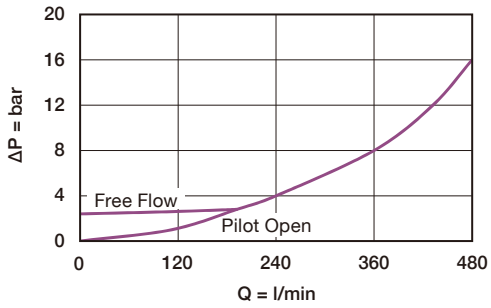
SCAG-03



SCAG-06



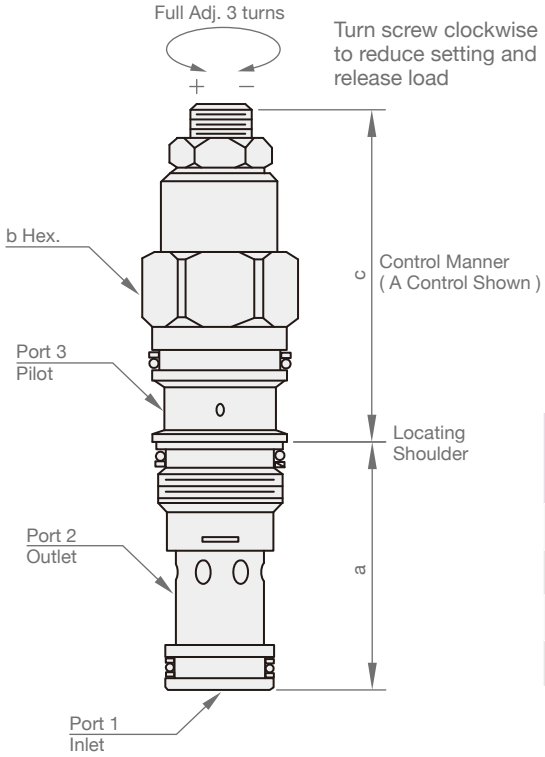
SCAG-08



SCBA

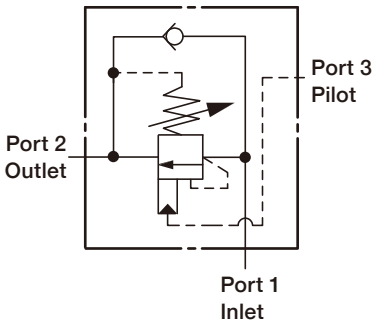
DIMENSION

(UNIT : mm)



Model	a	b	c
			A
SCBA-02	34.9	22.2	50
SCBA-03	34.9	28.6	61
SCBA-06	46.0	31.8	70
SCBA-08	63.5	41.3	90

SYMBOLS



ORDER CODES

SCB | A | - | 02 | - | T11A | - | I | N | A

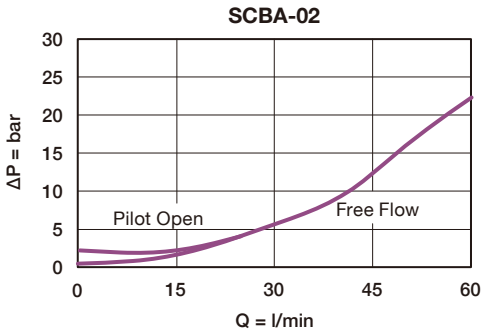
1	Model Name	SCB	
2	Pilot Ratio	A	3:1
3	Valve Size	02, 03, 06, 08	
4	Cavity	T11A, T2A, T17A, T19A	
5	Adjustable Range	H	70 ~ 280 bar, w/1.7 bar check, 210 bar initially setting
		I	25 ~ 105 bar, w/1.7 bar check, 70 bar initially setting
		A	70 ~ 280 bar, w/0.3 bar check, 210 bar initially setting
		B	25 ~ 105 bar, w/0.3 bar check, 70 bar initially setting
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	A	adjustable screw

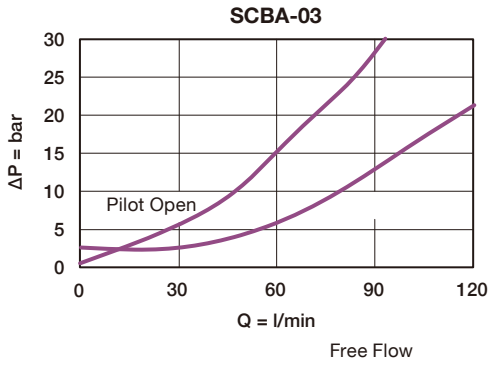
MODEL SPEC.

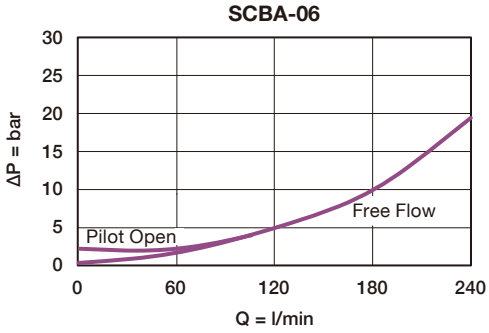
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCBA-02	T11A	60	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.17
SCBA-03	T2A	120	350	60/70		0.30
SCBA-06	T17A	240	350	200/215		0.64
SCBA-08	T19A	480	350	465/500		1.47

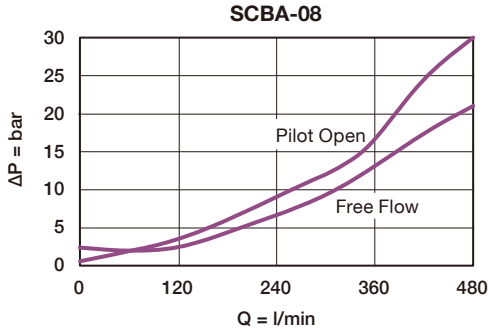
PERFORMANCE CURVES

▸ **Free Flow & Piloted Open Pressure Drop**





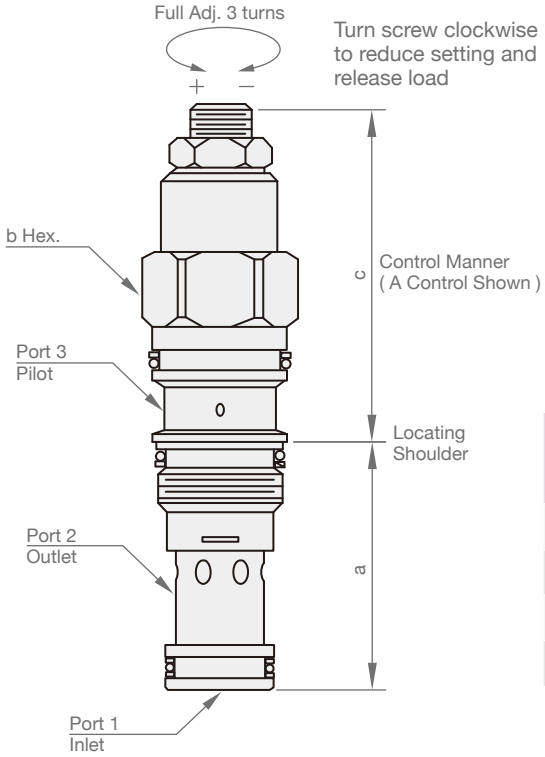




SCBG

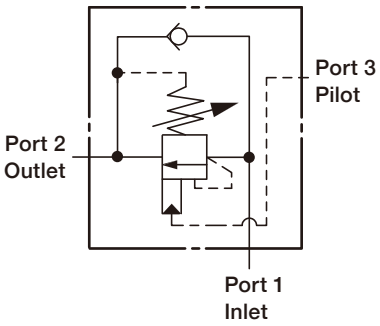
DIMENSION

(UNIT : mm)



Model	a	b	c
			A
SCBG-02	34.9	22.2	50
SCBG-03	34.9	28.6	61
SCBG-06	46.0	31.8	70
SCBG-08	63.5	41.3	90

SYMBOLS



ORDER CODES

SCB | G | - | 02 | - | T11A | - | K | N | A

1	Model Name	SCB	
2	Pilot Ratio	G	4.5:1
3	Valve Size	02, 03, 06, 08	
4	Cavity	T11A, T2A, T17A, T19A	
5	Adjustable Range	J	140 ~ 350 bar, w/1.7 bar check, 210 bar initially setting
		K	70 ~ 175 bar, w/1.7 bar check, 140 bar initially setting
		C	140 ~ 350 bar, w/0.3 bar check, 210 bar initially setting
		D	70 ~ 175 bar, w/0.3 bar check, 140 bar initially setting
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	A	adjustable screw

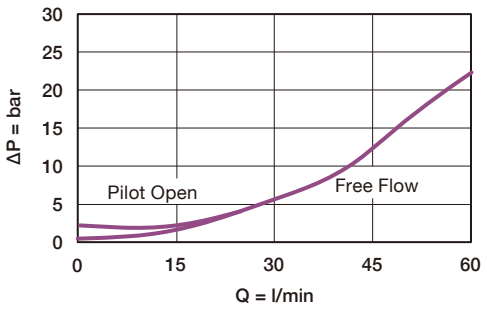
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCBG-02	T11A	60	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.17
SCBG-03	T2A	120	350	60/70		0.30
SCBG-06	T17A	240	350	200/215		0.64
SCBG-08	T19A	480	350	465/500		1.47

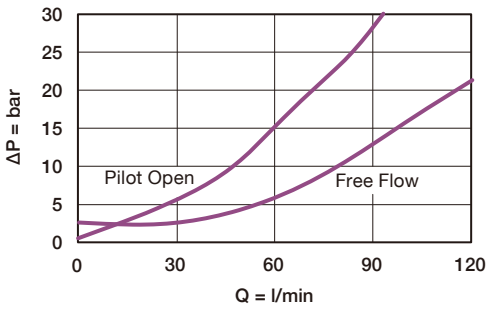
PERFORMANCE CURVES

▸ **Free Flow & Piloted Open Pressure Drop**

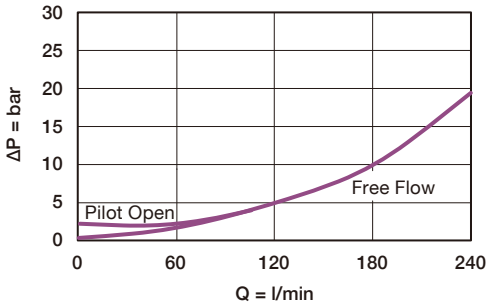
SCBG-02



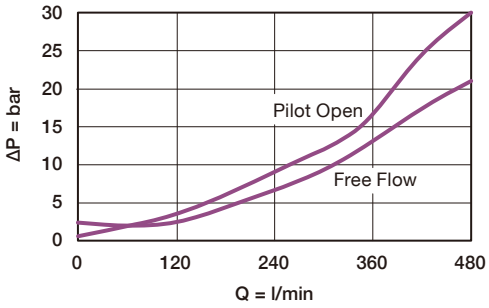
SCBG-03



SCBG-06



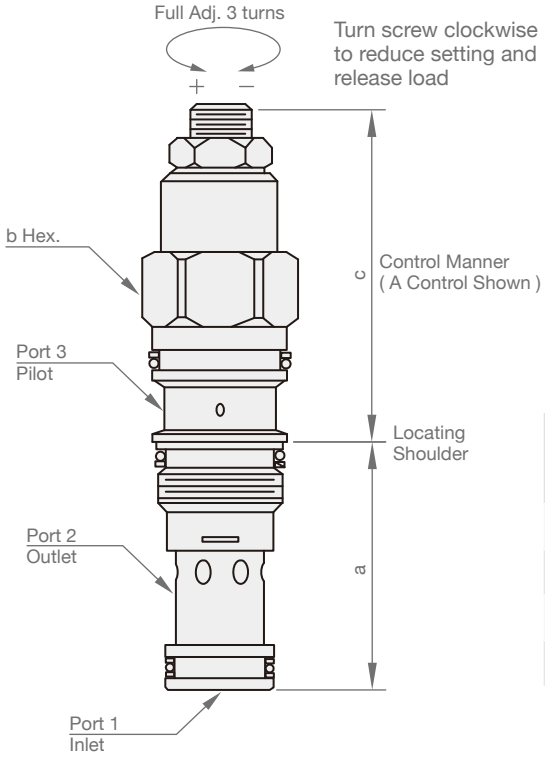
SCBG-08



SCBH

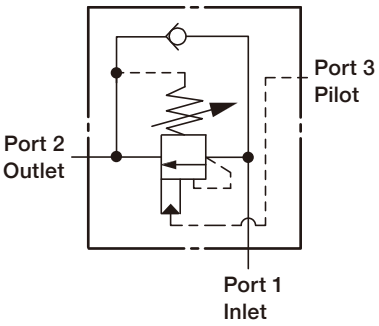
DIMENSION

(UNIT : mm)



Model	a	b	c
			A
SCBH-02	34.9	22.2	50
SCBH-03	34.9	28.6	61
SCBH-06	46.0	31.8	70
SCBH-08	63.5	41.3	90

SYMBOLS



ORDER CODES

SCB | H | - | 02 | - | T11A | - | K | N | A

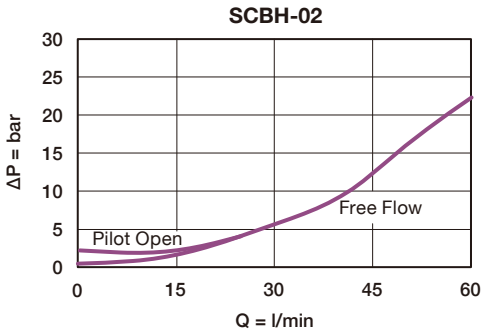
1	Model Name	SCB	
2	Pilot Ratio	H	10:1
3	Valve Size	02, 03, 06, 08	
4	Cavity	T11A, T2A, T17A, T19A	
5	Adjustable Range	J	140 ~ 350 bar, w/1.7 bar check, 210 bar initially setting
		K	70 ~ 175 bar, w/1.7 bar check, 140 bar initially setting
		C	140 ~ 350 bar, w/0.3 bar check, 210 bar initially setting
		D	70 ~ 175 bar, w/0.3 bar check, 140 bar initially setting
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	A	adjustable screw

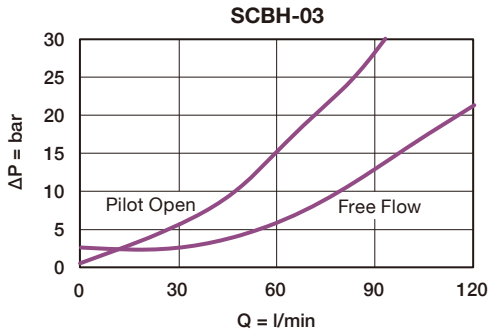
MODEL SPEC.

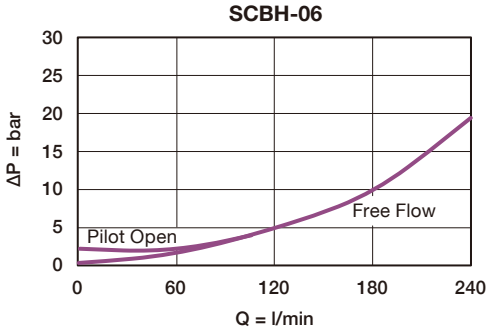
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCBH-02	T11A	60	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.17
SCBH-03	T2A	120	350	60/70		0.30
SCBH-06	T17A	240	350	200/215		0.64
SCBH-08	T19A	480	350	465/500		1.47

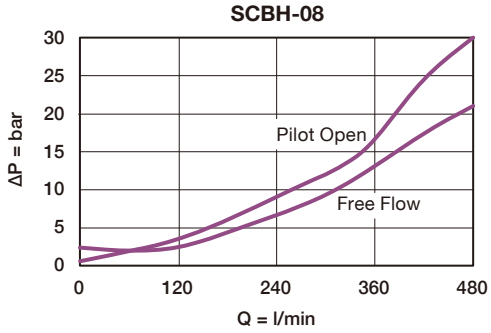
PERFORMANCE CURVES

▸ **Free Flow & Piloted Open Pressure Drop**





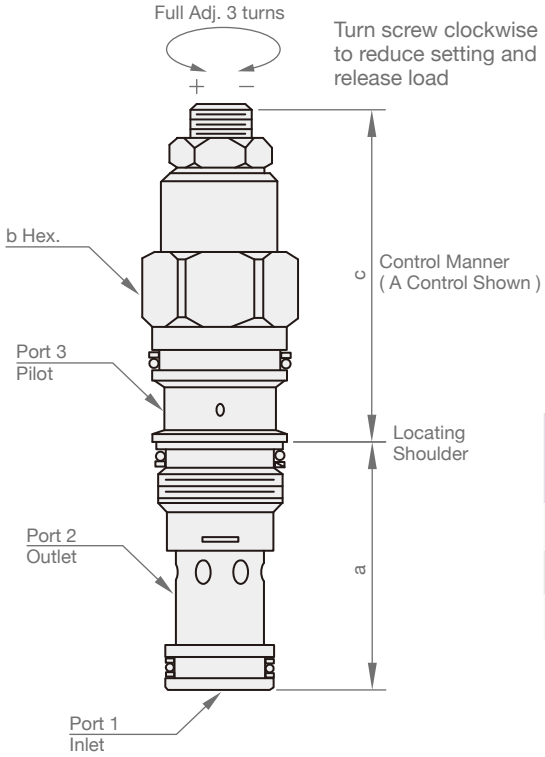




SCBC

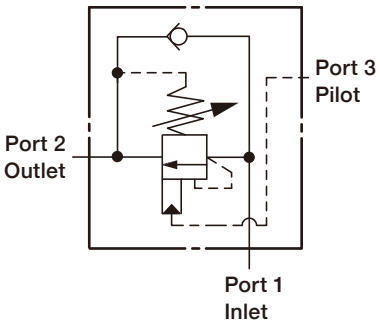
DIMENSION

(UNIT : mm)



Model	a	b	c
			A
SCBC-02	34.9	22.2	50
SCBC-03	34.9	28.6	61
SCBC-06	46.0	31.8	70

SYMBOLS



ORDER CODES

SCB | C | - | 02 | - | T11A | - | I | N | A

1 2 3 4 5 6 7

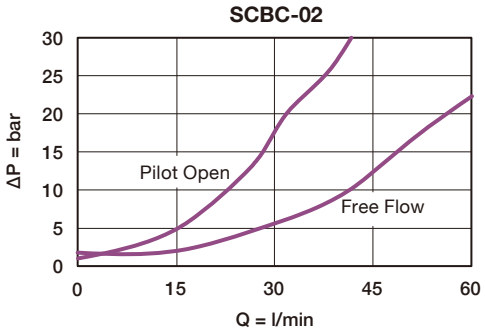
1	Model Name	SCB	
2	Pilot Ratio	C	3:1
3	Valve Size	02, 03, 06	
4	Cavity	T11A, T2A, T17A	
5	Adjustable Range	H	70 ~ 280 bar, w/1.7 bar check, 210 bar initially setting
		I	25 ~ 105 bar, w/1.7 bar check, 70 bar initially setting
		A	70 ~ 280 bar, w/0.3 bar check, 210 bar initially setting
		B	25 ~ 105 bar, w/0.3 bar check, 70 bar initially setting
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	A	adjustable screw

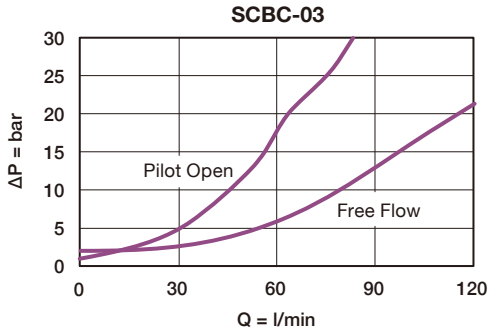
MODEL SPEC.

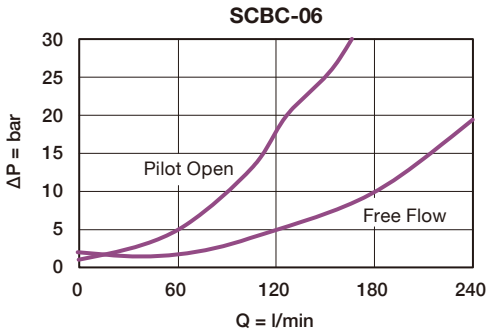
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCBC-02	T11A	40	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.17
SCBC-03	T2A	80	350	60/70		0.30
SCBC-06	T17A	160	350	200/215		0.64

PERFORMANCE CURVES

▸ **Free Flow & Piloted Open Pressure Drop**



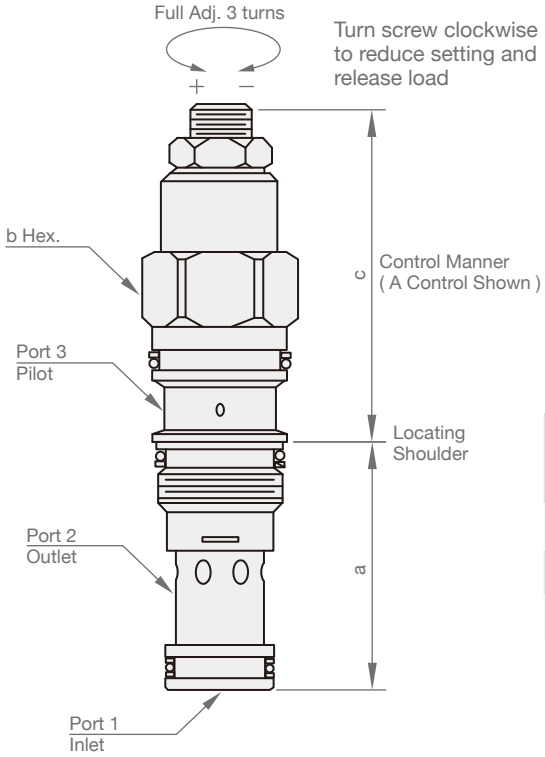




SCBD

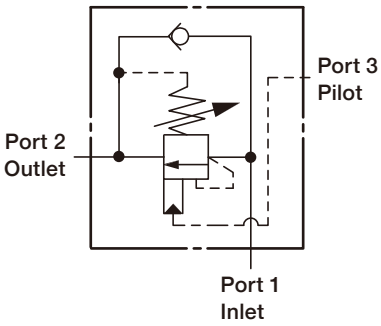
DIMENSION

(UNIT : mm)



Model	a	b	c
			A
SCBD-02	34.9	22.2	50
SCBD-03	34.9	28.6	61
SCBD-06	46.0	31.8	70

SYMBOLS



ORDER CODES

SCB | D | - | 02 | - | T11A | - | J | N | A

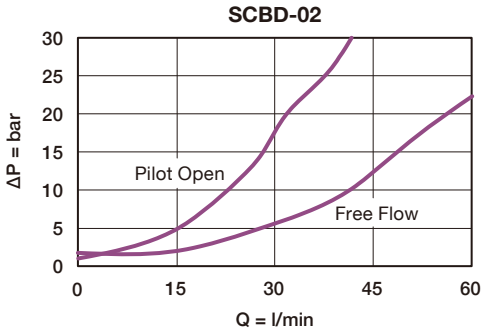
1	Model Name	SCB	
2	Pilot Ratio	D	4.5:1
3	Valve Size	02, 03, 06	
4	Cavity	T11A, T2A, T17A	
5	Adjustable Range	J	140 ~ 350 bar, w/1.7 bar check, 210 bar initially setting
		K	70 ~ 175 bar, w/1.7 bar check, 140 bar initially setting
		C	140 ~ 350 bar, w/0.3 bar check, 210 bar initially setting
		D	70 ~ 175 bar, w/0.3 bar check, 140 bar initially setting
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	A	adjustable screw

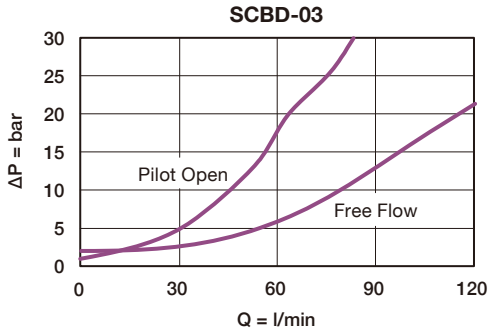
MODEL SPEC.

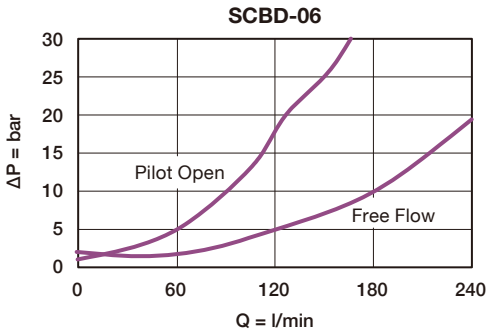
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCBD-02	T11A	40	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.17
SCBD-03	T2A	80	350	60/70		0.30
SCBD-06	T17A	160	350	200/215		0.64

PERFORMANCE CURVES

▸ **Free Flow & Piloted Open Pressure Drop**



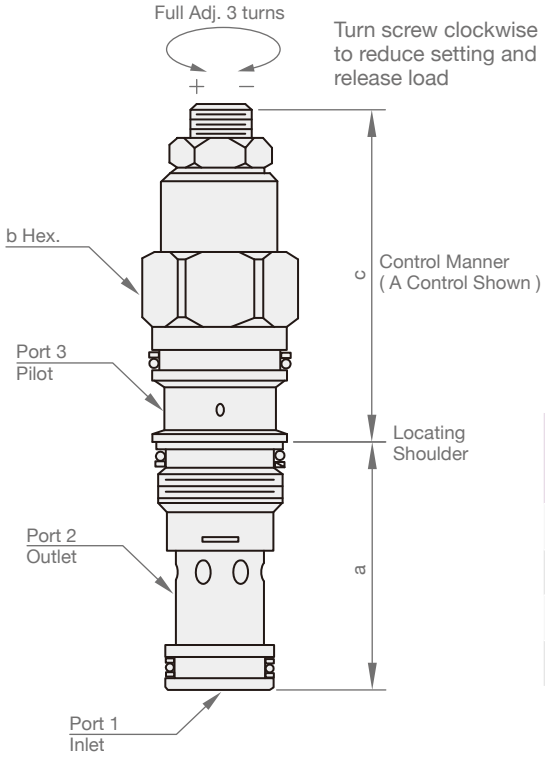




SCBE

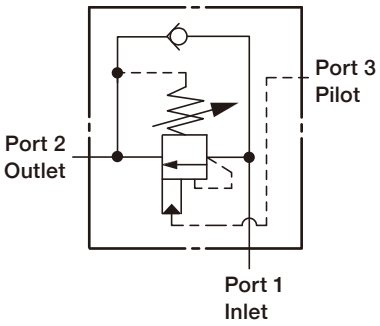
DIMENSION

(UNIT : mm)



Model	a	b	c
			A
SCBE-02	34.9	22.2	50
SCBE-03	34.9	28.6	61
SCBE-06	46.0	31.8	70
SCBE-08	63.5	41.3	90

SYMBOLS



ORDER CODES

SCB | E | - | 02 | - | T11A | - | I | N | A

1 2 3 4 5 6 7

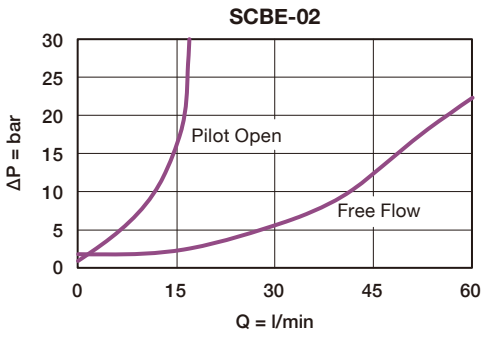
1	Model Name	SCB	
2	Pilot Ratio	E	3:1
3	Valve Size	02, 03, 06, 08	
4	Cavity	T11A, T2A, T17A, T19A	
5	Adjustable Range	H	70 ~ 280 bar, w/1.7 bar check, 210 bar initially setting
		I	25 ~ 105 bar, w/1.7 bar check, 70 bar initially setting
		A	70 ~ 280 bar, w/0.3 bar check, 210 bar initially setting
		B	25 ~ 105 bar, w/0.3 bar check, 70 bar initially setting
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	A	adjustable screw

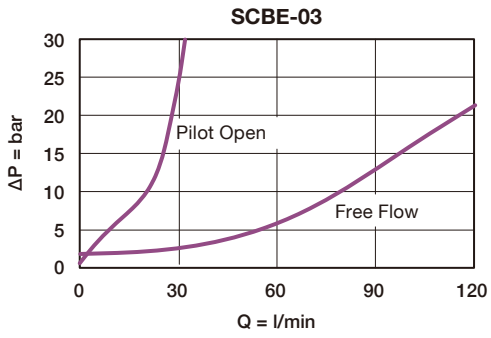
MODEL SPEC.

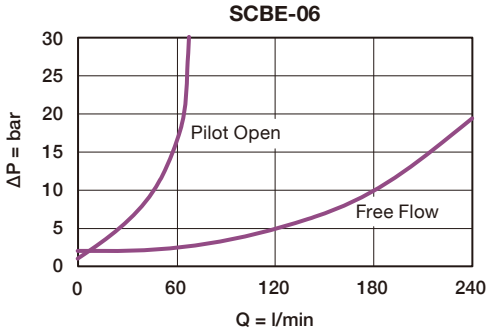
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCBE-02	T11A	15	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.17
SCBE-03	T2A	30	350	60/70		0.30
SCBE-06	T17A	60	350	200/215		0.64
SCBE-08	T19A	80	350	465/500		1.47

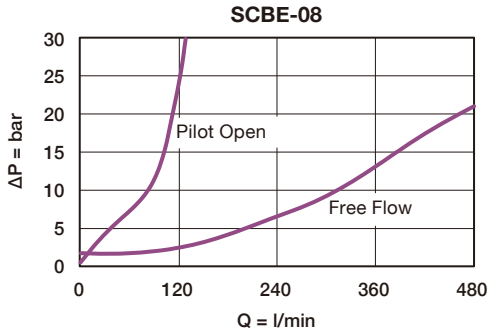
PERFORMANCE CURVES

▸ **Free Flow & Piloted Open Pressure Drop**





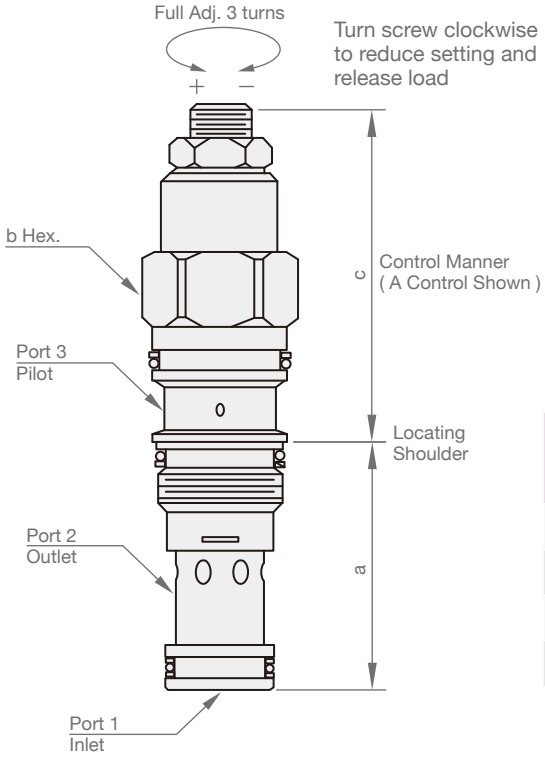




SCBF

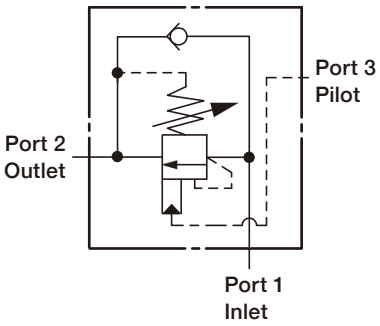
DIMENSION

(UNIT : mm)



Model	a	b	c
			A
SCBF-02	34.9	22.2	50
SCBF-03	34.9	28.6	61
SCBF-06	46.0	31.8	70
SCBF-08	63.5	41.3	90

SYMBOLS



ORDER CODES

SCB F - 02 - T11A - K N A

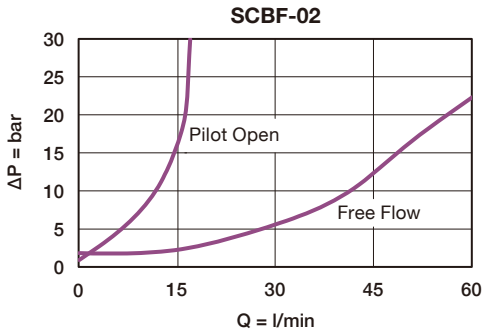
1	Model Name	SCB	
2	Pilot Ratio	F	4.5:1
3	Valve Size	02, 03, 06, 08	
4	Cavity	T11A, T2A, T17A, T19A	
5	Adjustable Range	J	140 ~ 350 bar, w/1.7 bar check, 210 bar initially setting
		K	70 ~ 175 bar, w/1.7 bar check, 140 bar initially setting
		C	140 ~ 350 bar, w/0.3 bar check, 210 bar initially setting
		D	70 ~ 175 bar, w/0.3 bar check, 140 bar initially setting
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	A	adjustable screw

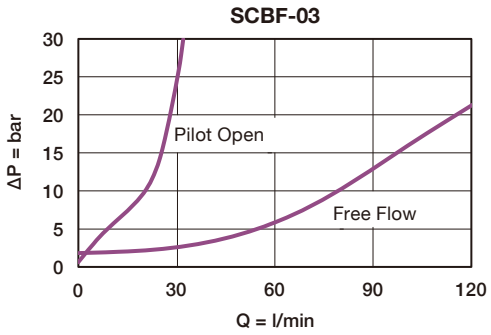
MODEL SPEC.

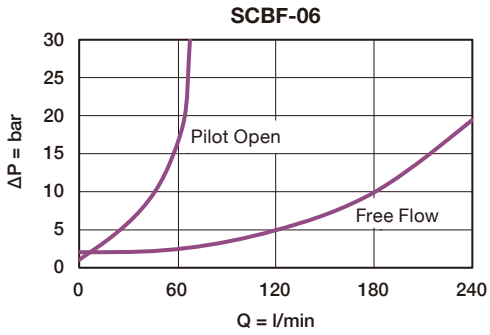
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCBF-02	T11A	15	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.17
SCBF-03	T2A	30	350	60/70		0.30
SCBF-06	T17A	60	350	200/215		0.64
SCBF-08	T19A	80	350	465/500		1.47

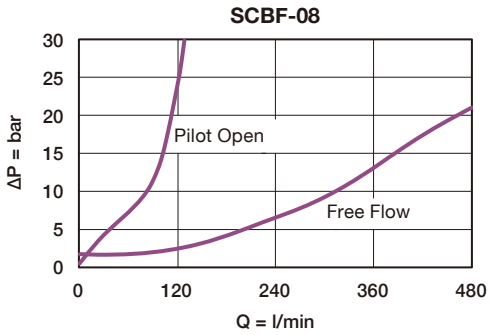
PERFORMANCE CURVES

▸ **Free Flow & Piloted Open Pressure Drop**





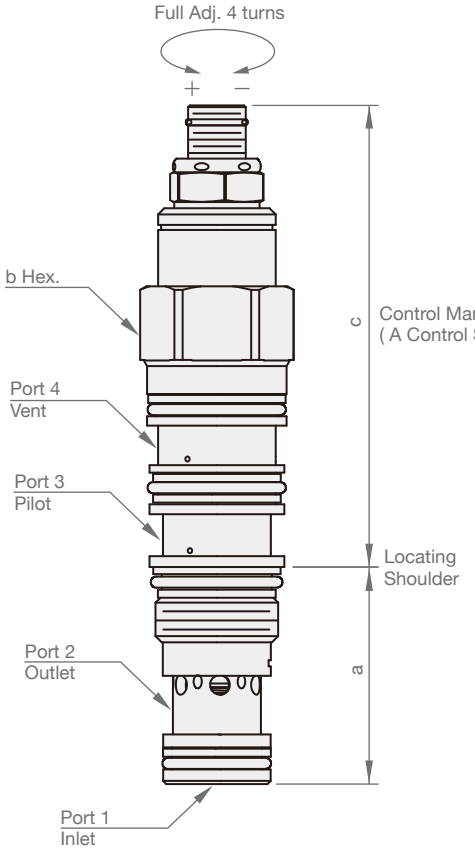




SCWA

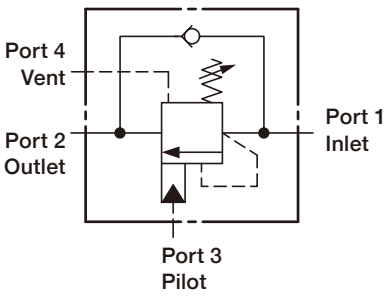
DIMENSION

(UNIT : mm)



Model	a	b	c
			A
SCWA-02	34.9	22.2	74.0
SCWA-03	34.9	28.6	84.0
SCWA-06	46.0	31.8	95.3
SCWA-08	63.5	41.3	117.0

SYMBOLS



ORDER CODES

SCW | A | - | 02 | - | T21A | - | I | N | A

1 2 3 4 5 6 7

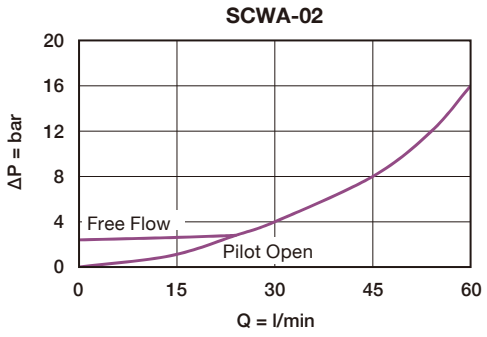
1	Model Name	SCW	
2	Pilot Ratio	A	3:1
3	Valve Size	02, 03, 06, 08	
4	Cavity	T21A, T22A, T23A, T24A	
5	Adjustable Range	H	70 ~ 280 bar, 210 bar initially setting
		I	25 ~ 105 bar, 70 bar initially setting
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	A	adjustable screw

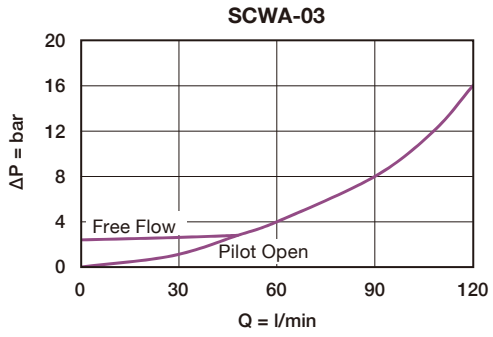
MODEL SPEC.

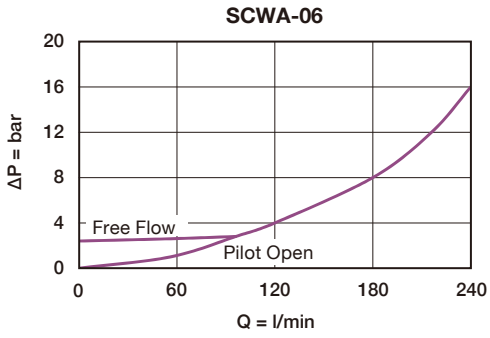
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCWA-02	T21A	60	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.19
SCWA-03	T22A	120	350	60/70		0.36
SCWA-06	T23A	240	350	200/215		0.72
SCWA-08	T24A	480	350	465/500		1.60

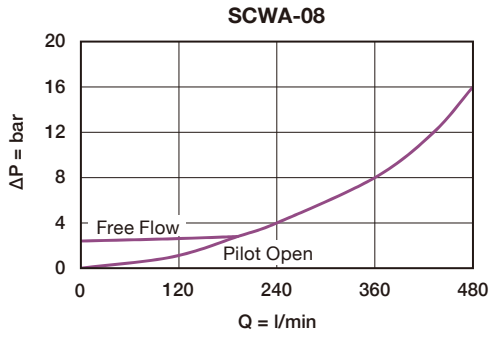
PERFORMANCE CURVES

▸ **Free Flow & Piloted Open Pressure Drop**





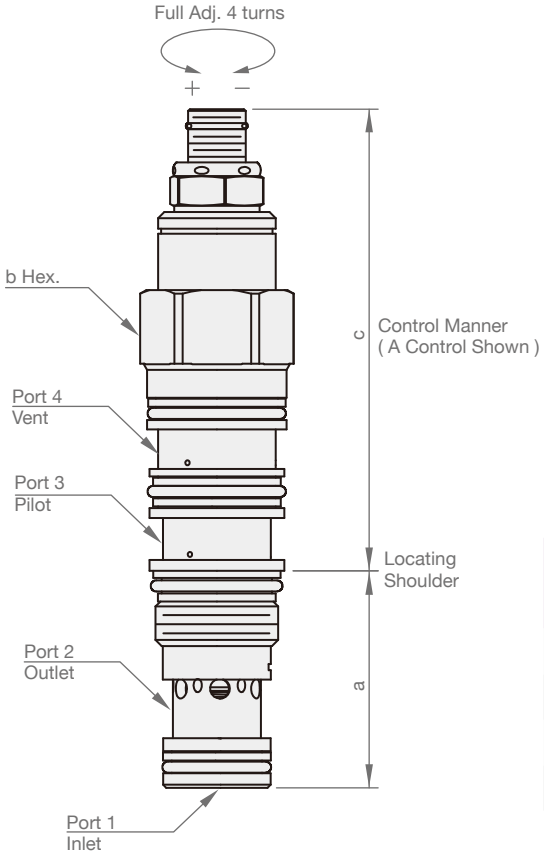




SCWG

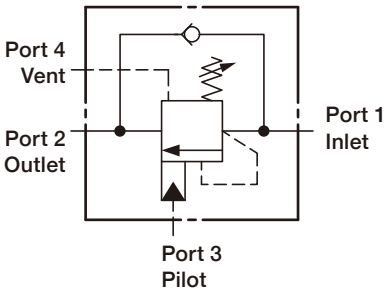
DIMENSION

(UNIT : mm)



Model	a	b	c
			A
SCWG-02	34.9	22.2	74.0
SCWG-03	34.9	28.6	84.0
SCWG-06	46.0	31.8	95.3
SCWG-08	63.5	41.3	117.0

SYMBOLS



ORDER CODES

SCW | G | - | 02 | - | T21A | - | F | N | A

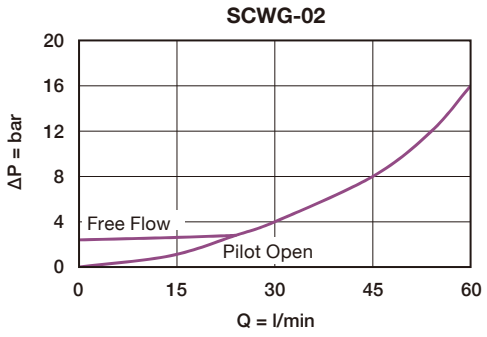
1	Model Name	SCW	
2	Pilot Ratio	G	5:1
3	Valve Size	02, 03, 06, 08	
4	Cavity	T21A, T22A, T23A, T24A	
5	Adjustable Range	G	140 ~ 420 bar, 280 bar initially setting
		F	70 ~ 175 bar, 140 bar initially setting
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	A	adjustable screw

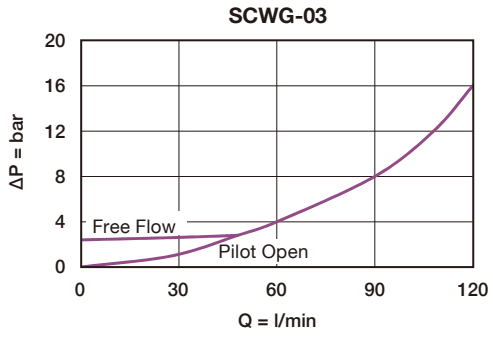
MODEL SPEC.

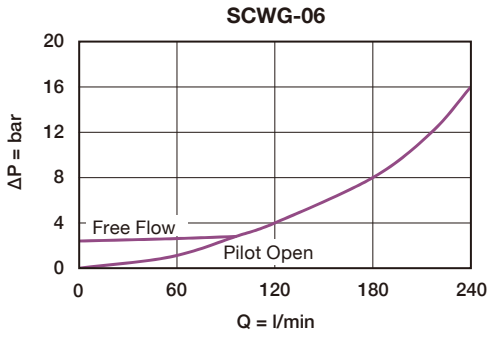
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCWG-02	T21A	60	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.19
SCWG-03	T22A	120	350	60/70		0.36
SCWG-06	T23A	240	350	200/215		0.72
SCWG-08	T24A	480	350	465/500		1.60

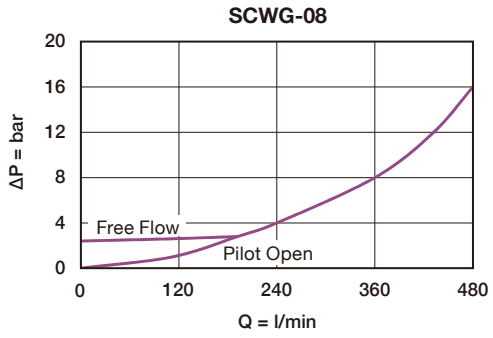
PERFORMANCE CURVES

▸ **Free Flow & Piloted Open Pressure Drop**





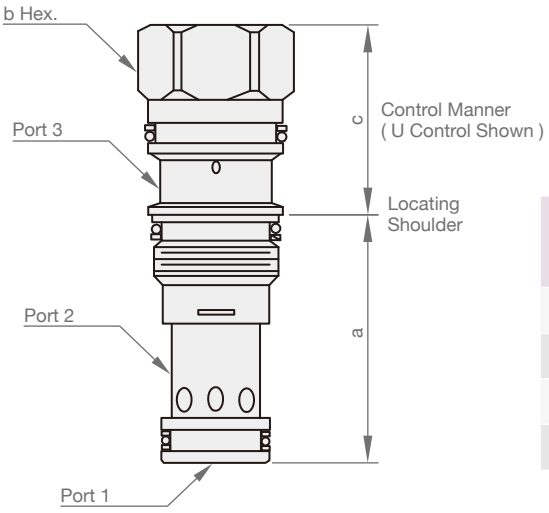




SLO

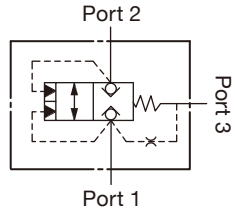
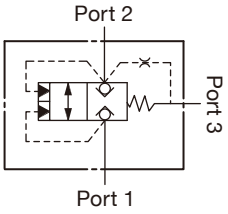
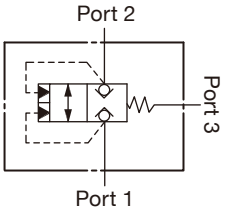
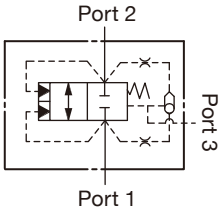
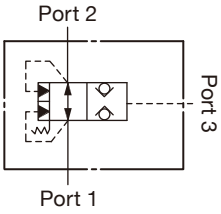
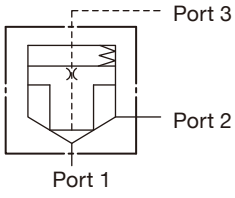
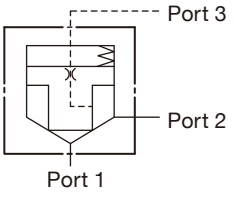
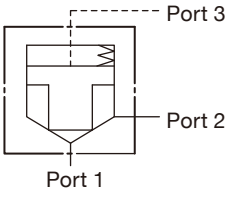
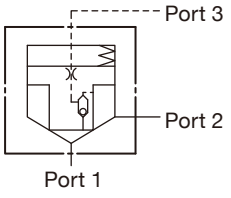
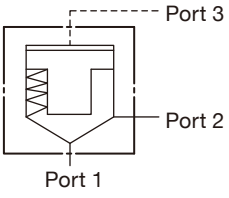
DIMENSION

(UNIT : mm)



Model	a	b	c	
			U	A
SLO*-02	34.9	22.2	31	64
SLO*-03	34.9	28.6	35	72
SLO*-06	46.0	31.8	46	84
SLO*-08	63.5	41.3	59	100

SYMBOLS

SLOA	SLOB	SLOC	SLOD	SLOO
Vent-to-Open	**Vent-to-Open**	**Pilot-to-Close**	**Vent-to-Open**	**Pilot-to-Close**
				
				
Spring biased closed, pilot source from port 1	Spring biased closed, pilot source from port 2	Spring biased closed, pilot source from port 3	Spring biased closed, higher of port 1 or 2 pilot source	Spring biased open, pilot source from port 3

ORDER CODES

SLO	C	-	02	-	T11A	-	D	N	U
1	2		3		4		5	6	7

1	Model Name	SLO	
2	Operation	A, B, C, D, O	
3	Valve Size	02, 03, 06, 08	
4	Cavity	T11A, T2A, T17A, T19A	
5	Cracking Pressure (bar)	D	Type A, B, C, D, Port 1 : 3.5 Type O, Port 3 : 2

6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	U	unadjustable
		A	adjustable screw

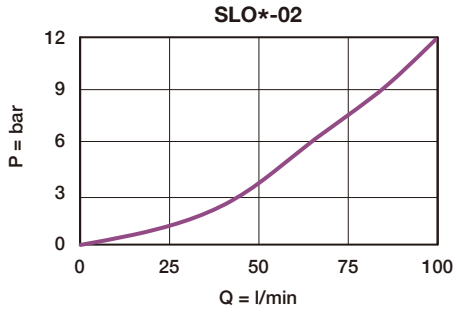
MODEL SPEC.

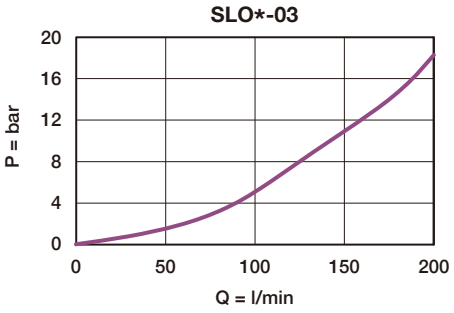
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Control Orifice Diameter (mm)	Operating Temperature	Weight (kg)
SLO*-02	T11A	80	350	40/50	Ø0.5	-35 ~ 100°C (-31 ~ 212°F)	0.12
SLO*-03	T2A	160	350	60/70	Ø0.5		0.22
SLO*-06	T17A	320	350	200/215	Ø0.8		0.50
SLO*-08	T19A	640	350	465/500	Ø0.9		1.15

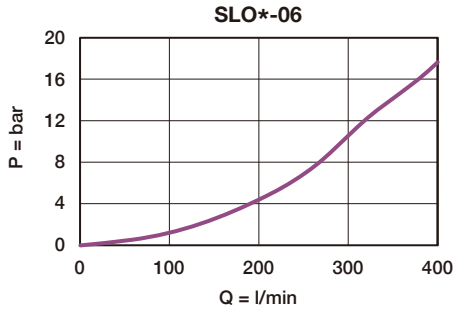
Area ratio, A3 to A1 : 1.8:1 (with sealed piston)
Area ratio, A3 to A2 : 2.25:1 (with sealed piston)

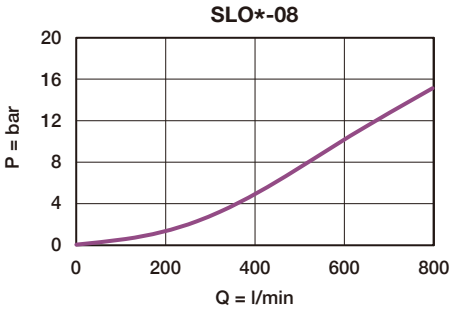
PERFORMANCE CURVES

Typical Pressure Drop





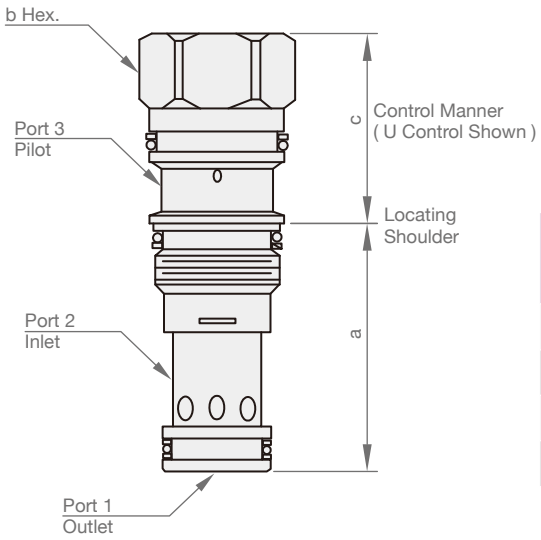




SLP

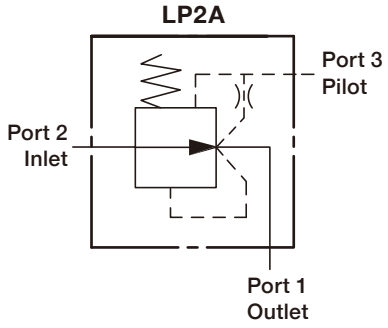
DIMENSION

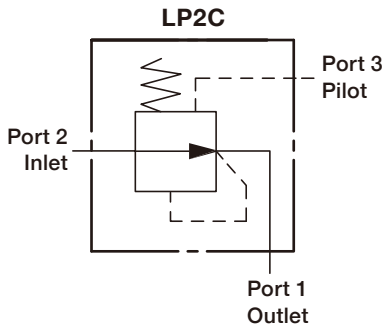
(UNIT : mm)



Model	a	b	c	
			U	A
SLP*-02	34.9	22.2	31	64
SLP*-03	34.9	28.6	35	72
SLP*-06	46.0	31.8	46	84
SLP*-08	63.5	41.3	59	100

SYMBOLS





ORDER CODES

SLP C - 02 - T11A - D N U

1 2 3 4 5 6 7

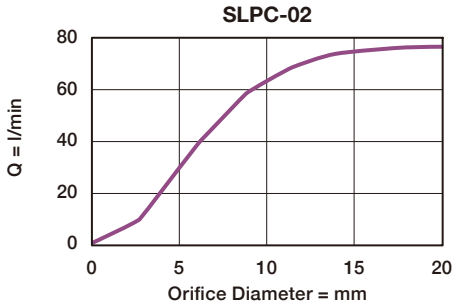
1	Model Name	SLP	
2	Type	A	internal pilot
		C	external pilot
3	Valve Size	02, 03, 06, 08	
4	Cavity	T11A, T2A, T17A, T19A	
5	Cracking Pressure	D	3.5 bar
		F	7.0 bar
		G	10.0 bar
		H	14.0 bar
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	U	unadjustable
		A	adjustable screw

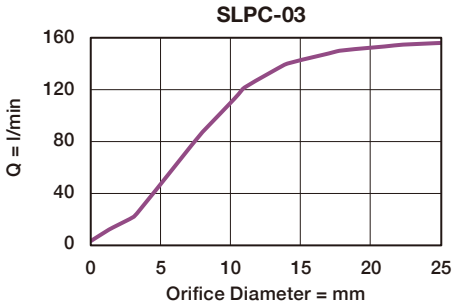
MODEL SPEC.

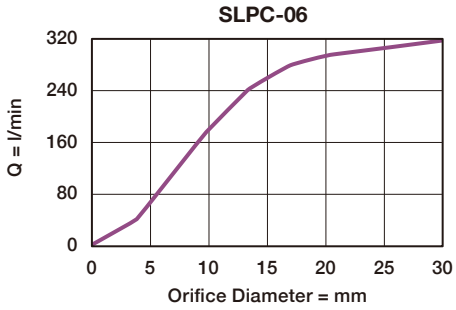
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SLP*-02	T11A	60	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.15
SLP*-03	T2A	120	350	60/70		0.25
SLP*-06	T17A	240	350	200/215		0.55
SLP*-08	T19A	480	350	465/500		1.17

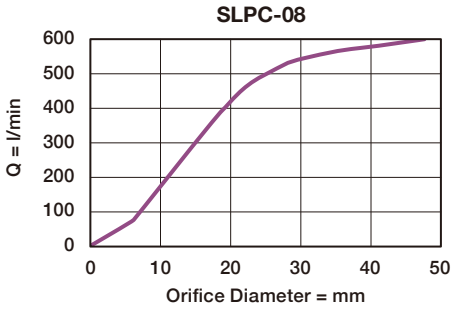
PERFORMANCE CURVES

▸ **Capacity as a Restrictive Compensator**





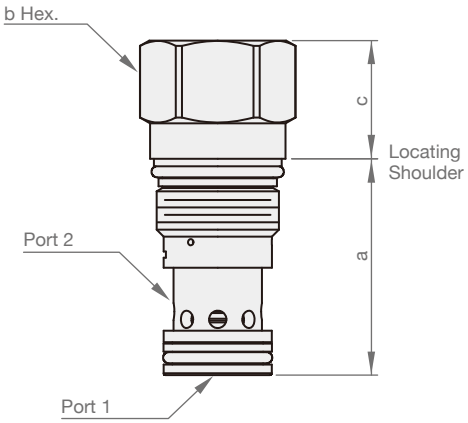




SFQ

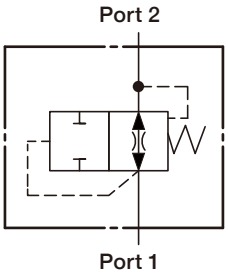
DIMENSION

(UNIT : mm)



Model	a	b	c
			U
SFQA-02	35.1	22.2	19.1
SFQA-03	41.1	28.6	17.5
SFQA-06	62.0	31.8	24.6
SFQA-08	79.5	41.3	30.2

SYMBOLS



ORDER CODES

SFQA - 02 - T13A - A N U

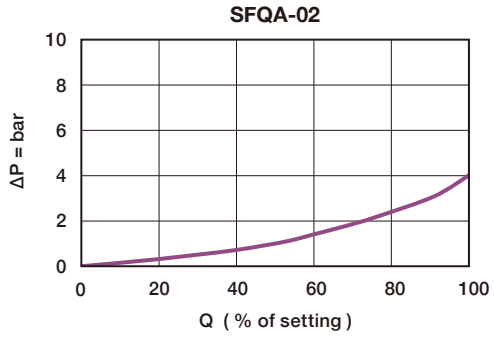
1	Model Name	SFQA	
2	Valve Size	02, 03, 06, 08	
3	Cavity	T13A, T5A, T16A, T18A	
4	Orifice Type	A	replaceable
		B	permanent
5	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
6	Control Manner	U	unadjustable

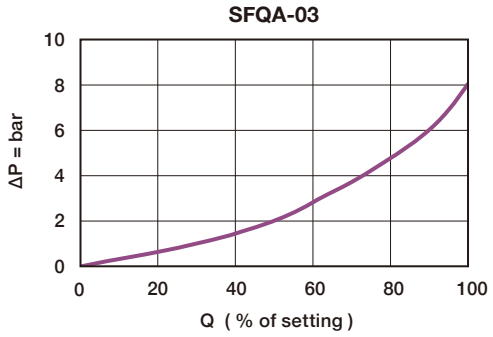
MODEL SPEC.

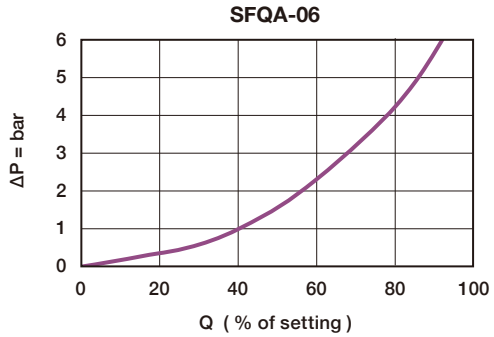
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SFQA-02	T13A	23	350	45/50	-35 ~ 100°C (-31 ~ 212°F)	0.10
SFQA-03	T5A	60	350	60/70		0.19
SFQA-06	T16A	95	350	200/215		0.46
SFQA-08	T18A	200	350	465/500		0.92

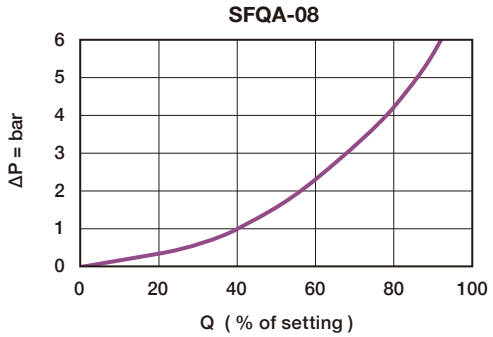
PERFORMANCE CURVES

▸ **Typical Pressure Drop**





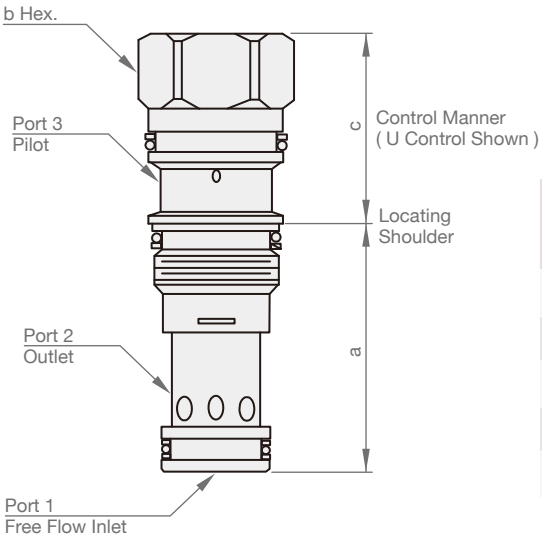




SCOA

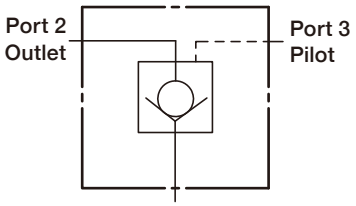
DIMENSION

(UNIT : mm)



Model	a	b	c
			U
SCOA-01	31.0	19.1	32
SCOA-02	34.9	22.2	31
SCOA-03	34.9	28.6	35
SCOA-06	46.0	31.8	46
SCOA-08	63.5	41.3	59

SYMBOLS



Pilot Ratio = 1.8:1

ORDER CODES

SCO | A | - | 02 | - | T11A | - | C | N | U

1 2 3 4 5 6 7

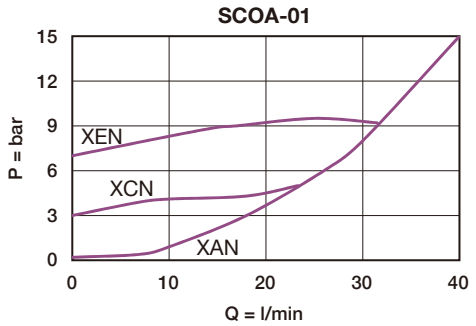
1	Model Name	SCO	
2	Pilot Ratio	A	1.8:1
3	Valve Size	01, 02, 03, 06, 08	
4	Cavity	T163A, T11A, T2A, T17A, T19A	
5	Cracking Pressure	A	0.3 bar
		C	2.0 bar
		E	5.0 bar
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	U	standard pilot

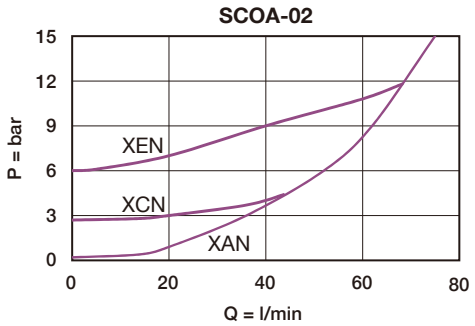
MODEL SPEC.

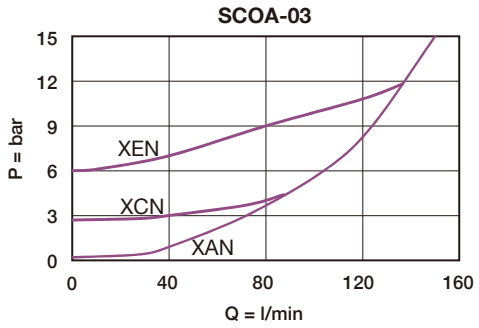
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCOA-01	T163A	40	350	30/40	-35 ~ 100°C (-31 ~ 212°F)	0.10
SCOA-02	T11A	80	350	40/50		0.13
SCOA-03	T2A	160	350	60/70		0.24
SCOA-06	T17A	320	350	200/215		0.53
SCOA-08	T19A	640	350	465/500		1.19

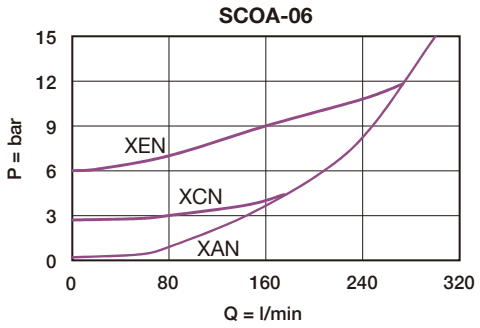
PERFORMANCE CURVES

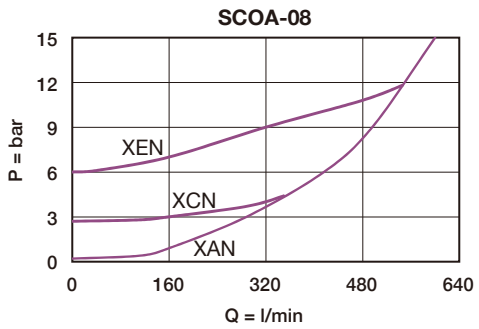
▸ **Typical Pressure Drop**







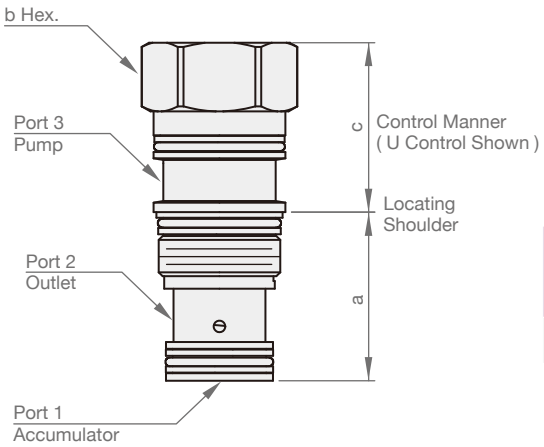




SCOO

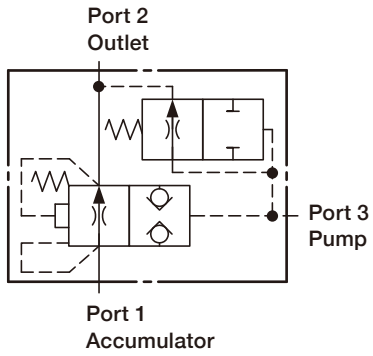
DIMENSION

(UNIT : mm)



Model	a	b	c
			U
SCOO-03	35.1	28.6	35.1

SYMBOLS



Pilot Ratio = 120:1

ORDER CODES

SCO | O | - | 03 | - | T2A | - | D | N | U

1 2 3 4 5 6 7

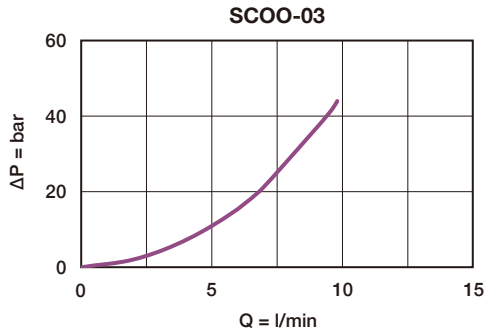
1	Model Name	SCO	
2	Pilot Ratio	O	120:1
3	Valve Size	03	
4	Cavity	T2A	
5	Min. Pilot Pressure	D	4 bar
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
7	Control Manner	U	standard pilot

MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SCOO-03	T2A	4	350	60/70	-35 ~ 100°C (-31 ~ 212°F)	0.22

PERFORMANCE CURVES

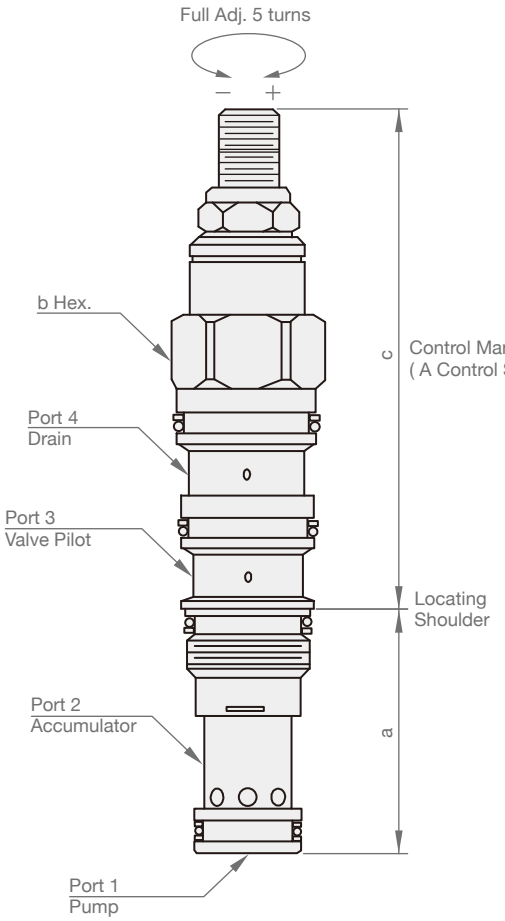
▸ **Pressure Differential v.s. Flow**



SQC

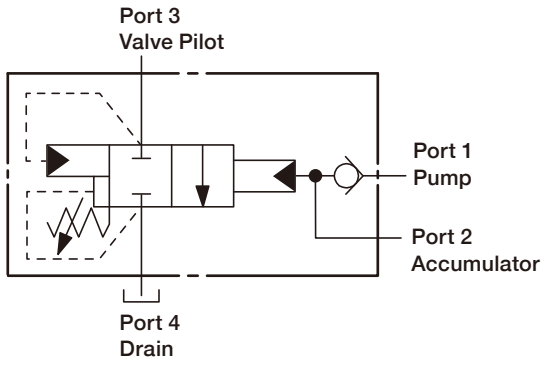
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
SQC*-02	34.9	22.2	78.5	84.8

SYMBOLS



ORDER CODES

SQC ① | C ② - 02 ③ - T21A ④ - A ⑤ | N ⑥ | A ⑦

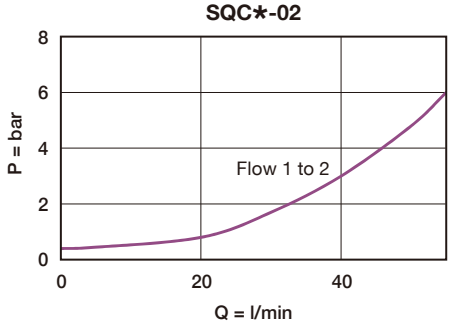
①	Model Name	SQC	
②	Pressure Differential Ratio btw. Unload & Reset	A	15%
		B	20%
		C	30%
③	Capacity (l/min)	02	60
④	Cavity	T21A	
⑤	Adjustable Range	A	7 ~ 210 bar
		B	3.5 ~ 105 bar
		C	140 ~ 350 bar
		D	18 ~ 55 bar
⑥	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
⑦	Control Manner	A	adjustable screw
		B	control knob

MODEL SPEC.

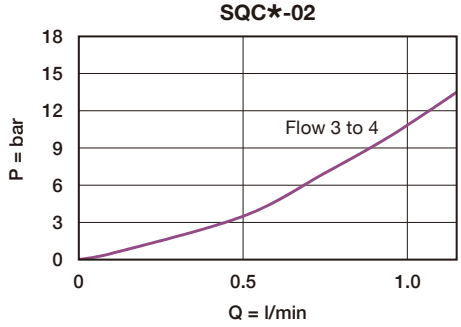
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SQC*-02	T21A	60	350	60/70	-35 ~ 100°C (-31 ~ 212°F)	0.22

PERFORMANCE CURVES

▸ **Pressure Differential vs. Flow**

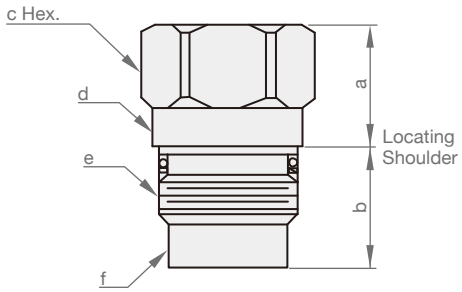


▸ **Pressure Differential vs. Flow (Full Piloted Open)**



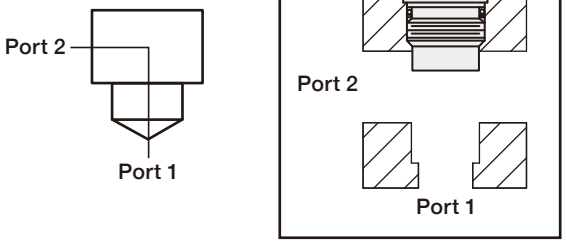
OA2

DIMENSION (UNIT : mm)



Model	a	b	c	d	e	f
X2OA2	20.3	16.3	22.2	Ø21.7	M16 P1.5-6H	Ø17.4
X3OA2	17.8	22.2	28.6	Ø27.3	1”-14UNS-2B	Ø22.6
X6OA2	26	25	31.7	Ø39.7	M36 P2.0-6H	Ø33
X8OA2	30.4	26.8	41.2	Ø52.5	M48 P2.0-6H	Ø43

SYMBOLS

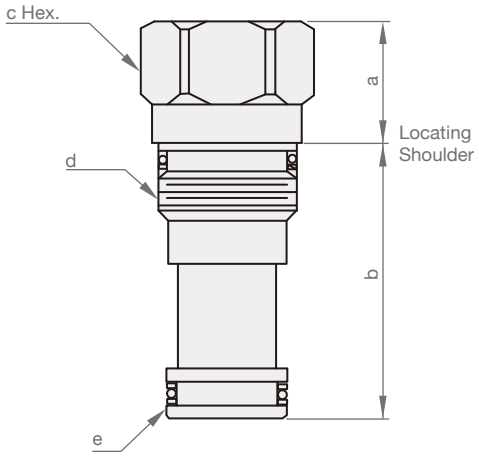


MODEL SPEC.

Model	Cavity	Thread	Material of Seal	Weight (kg)
X1OA2-T162A-XX	T162A	M16 P1.5	buna-N	0.05
X2OA2-T10A-XX	T10A	M20 P1.5		0.09
X2OA2-T13A-XX	T13A	M20 P1.5		0.09
X3OA2-T3A-XX	T3A	1"-14UNS-2B		0.13
X3OA2-T5A-XX	T5A	1"-14UNS-2B		0.13
X6OA2-T16A-XX	T16A	M36 P2		0.28
X8OA2-T18A-XX	T18A	M48 P2		0.57

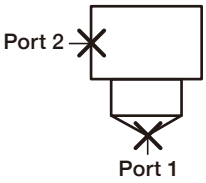
CA2

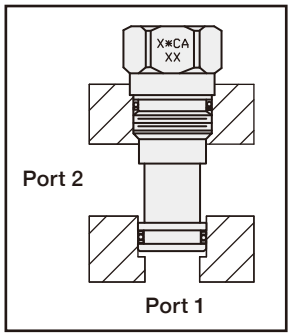
DIMENSION (UNIT : mm)



Model	a	b	c	d	e
X2CA2	20.2	38.2	22.2	M16 P1.5-6H	Ø17.4
X3CA2	17.8	47.7	28.6	1"-14UNS-2B	Ø22.2
X6CA2	25.7	60.8	31.7	M32 P2.0-6H	Ø31.7
X8CA2	30	79.6	41.2	M48 P2.0-6H	Ø41.2

SYMBOLS



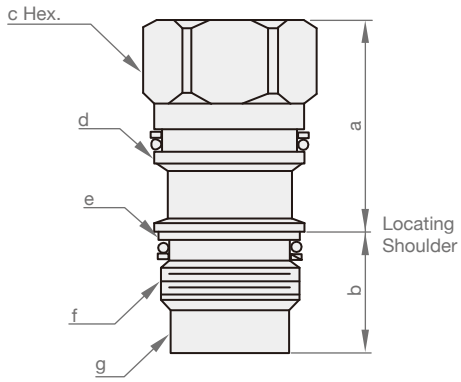


MODEL SPEC.

Model	Cavity	Thread	Material of Seal	Weight (kg)
X1CA2-T162A-XX	T162A	M16 P1.5	buna-N	0.07
X2CA2-T10A-XX	T10A	M20 P1.5		0.12
X2CA2-T13A-XX	T13A	M20 P1.5		0.12
X3CA2-T3A-XX	T3A	1"-14UNS-2B		0.21
X3CA2-T5A-XX	T5A	1"-14UNS-2B		0.20
X6CA2-T16A-XX	T16A	M36 P2		0.49
X8CA2-T18A-XX	T18A	M48 P2		1.10

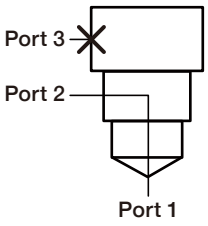
OA3

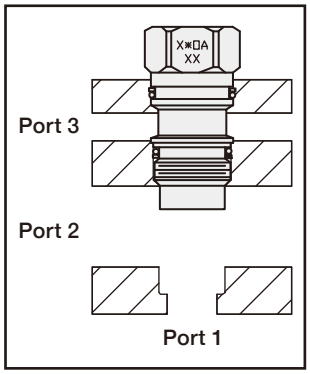
DIMENSION (UNIT : mm)



Model	a	b	c	d	e	f	g
X1OA3	31.86	14.54	19.1	Ø17.8	Ø16.6	M16 P1.5-6H	Ø13.9
X2OA3	30	17.8	22.2	Ø21.7	Ø20.5	M16 P1.5-6H	Ø17.4
X3OA3	35.2	15.2	28.6	Ø27.3	Ø26	1”-14UNS-2B	Ø22.8
X6OA3	46.2	18.3	31.6	Ø39.6	Ø36.4	M36 P2.0-6H	Ø32.5
X8OA3	59	23.5	41	Ø52.4	Ø48.2	M36 P2.0-6H	Ø43

SYMBOLS



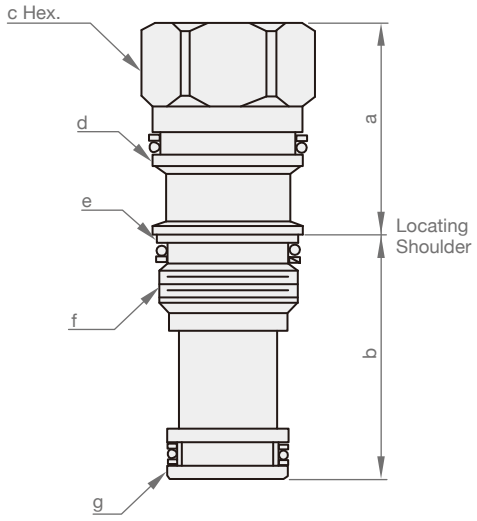


MODEL SPEC.

Model	Cavity	Thread	Material of Seal	Weight (kg)
X1OA3-T163A-XX	T163A	M16 P1.5	buna-N	0.06
X2OA3-T11A-XX	T11A	M20 P1.5		0.09
X3OA3-T2A-XX	T2A	1"-14UNS-2B		0.16
X6OA3-T17A-XX	T17A	M36 P2		0.31
X8OA3-T19A-XX	T19A	M48 P2		0.68

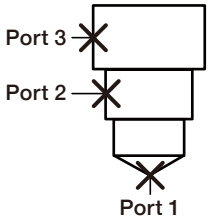
CA3

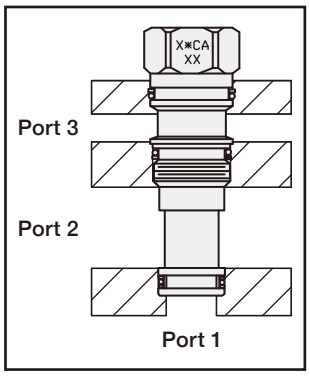
DIMENSION (UNIT : mm)



Model	a	b	c	d	e	f	g
X1CA3	32	31	19.1	Ø17.8	Ø16.6	M16 P1.5-6H	Ø13.9
X2CA3	30.5	34.8	22.2	Ø21.8	Ø20.5	M16 P1.5-6H	Ø17.3
X3CA3	35	35	28.6	Ø27.3	Ø26	1”-14UNS-2B	Ø22.1
X6CA3	46.4	46	31.6	Ø39.6	Ø36.4	M36 P2.0-6H	Ø31.6
X8CA3	46.4	46	31.6	Ø39.6	Ø36.4	M36 P2.0-6H	Ø31.6

SYMBOLS





MODEL SPEC.

Model	Cavity	Thread	Material of Seal	Weight (kg)
X1CA3-T163A-XX	T163A	M16 P1.5	buna-N	0.08
X2CA3-T11A-XX	T11A	M20 P1.5		0.12
X3CA3-T2A-XX	T2A	1"-14UNS-2B		0.22
X6CA3-T17A-XX	T17A	M36 P2		0.52
X8CA3-T19A-XX	T19A	M48 P2		1.20

SY-DPCA-C-1





FEATURES

1. Precise Control
   Digital microprocessor
2. Simple Setup
   Digital display and buttons
3. Full Function
   Adjustable input signal and output current
4. Safety
   Short, open circuit protection with error code

ORDER CODES

SY - DPCA - C - 1
1 2 3 4

1	Model Name	SY	
2	Control Mode	DPCA	digital proportional controller
3	Type	C	case with DIN-35 rail clamps
4	Output	1	single coil

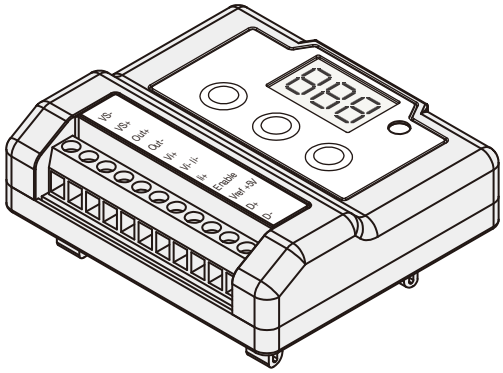
MODEL SPEC.

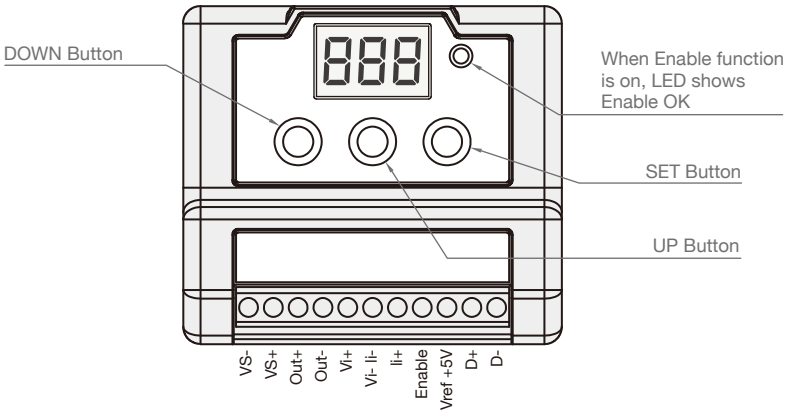
Model	SY-DPCA-C-1
Operating Voltage	9 ~ 32VDC
Voltage Tolerance	5%
Input Signal Options	0~5V, 0~10V, 4~20mA, RS485
Output Current	3A max.
Dither Frequency	70 ~ 350Hz
Ramp Up and Down	0.1 ~ 5.0s
Reference Voltage	5V (max. current 5mA)
Communication Interface	RS485
Communication Protocol	Modbus RTU
Operating Conditions	-20 ~ 60°C
Weight	0.1kg

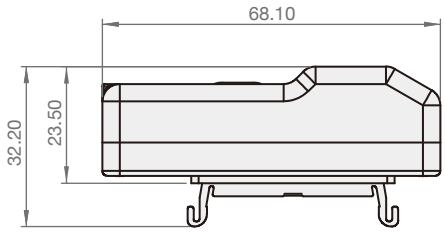
CONNECTIONS & DIMENSIONS (UNIT : mm)

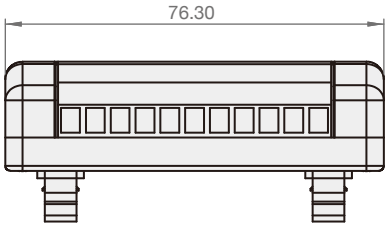
Wiring Instruction		
1	VS-	Power-
2	VS+	Power+
3	Out+	Coil+
4	Out-	Coil-
5	Vi+	Input voltage signal
6	Vi- Ii-	Signal ground
7	Ii+	Input current signal
8	Enable	Enable *
9	Vref +5V	+5V reference voltage
10	D+	RS485+ (optional)
11	D-	RS485- (optional)

* Default off. Ground this pin to enable controller when PEA function is on.







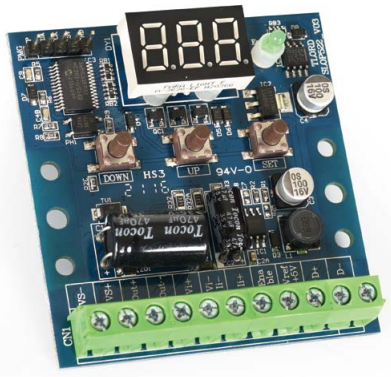


* A USB-RS485 converter (Purchase separately) is necessary to connect PC.

** Using a USB-RS485 converter, you can operate and configure parameters via the PC software provided by our company. Please mail us to get the PC software : info@steedmachinery.com.tw.

This product has been designed and tested to meet specific standards outlined in the European Electromagnetic Compatibility Directive (EMC)2014/30/EU.
Emission: EN 61000-6-4:2019
Immunity: EN 61000-6-2:2019: EN 61000-4-2:2009, EN 61000-4-3:2020, EN 61000-4-8:2010
Certificate No. NE1105240044

SY-DPCA-P-1



FEATURES

1. Precise Control
   Digital microprocessor
2. Simple Setup
   Digital display and buttons
3. Full Function
   Adjustable input signal and output current
4. Safety
   Short, open circuit protection with error code

ORDER CODES

SY - DPCA - P - 1

1	Model Name	SY	
2	Control Mode	DPCA	digital proportional controller
3	Type	P	PCB only
4	Output	1	single coil

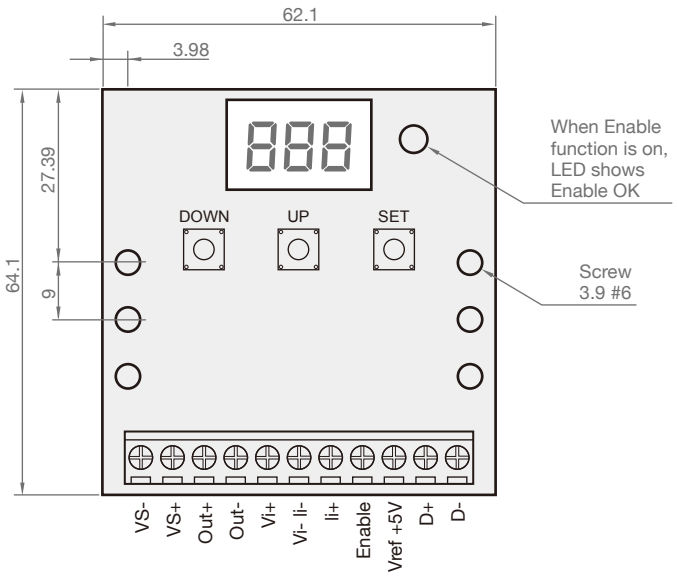
MODEL SPEC.

Model	SY-DPCA-P-1
Operating Voltage	9 ~ 32VDC
Voltage Tolerance	5%
Input Signal Options	0~5V, 0~10V, 4~20mA, RS485
Output Current	3A max.
Dither Frequency	70 ~ 350Hz
Ramp Up and Down	0.1 ~ 5.0s
Reference Voltage	5V (max. current 5mA)
Communication Interface	RS485
Communication Protocol	Modbus RTU
Operating Conditions	-20 ~ 60°C
Weight	0.06kg

CONNECTIONS & DIMENSIONS (UNIT : mm)

Wiring Instruction		
1	VS-	Power-
2	VS+	Power+
3	Out+	Coil+
4	Out-	Coil-
5	Vi+	Input voltage signal
6	Vi- Ii-	Signal ground
7	Ii+	Input current signal
8	Enable	Enable *
9	Vref +5V	+5V reference voltage
10	D+	RS485+ (optional)
11	D-	RS485- (optional)

* Default off. Ground this pin to enable controller when PEA function is on.



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Certificate No. NE1105240044

SY-DPCA-C-2





FEATURES

- Dual output with flexible switching
- Standard MODBUS RTU communication
- Advanced PID feedback control
- Independent PWM and dither frequency adjustment

ORDER CODES

SY - DPCA - C - 2

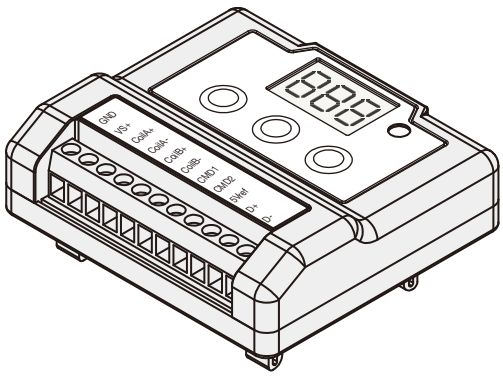
1	Model Name	SY	
2	Control Mode	DPCA	digital proportional controller
3	Type	C	case with DIN-35 rail clamps
		P	PCB only
4	Output	2	dual coil

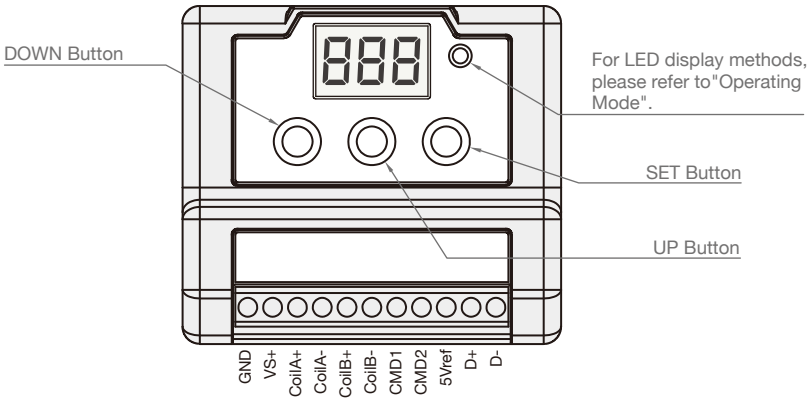
MODEL SPEC.

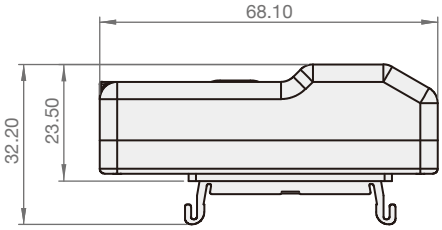
Model	SY-DPCA-C-2
Operating Voltage	9 ~ 32VDC
Voltage Tolerance	5%
Input Signal Options	0~5V, 0~10V, 4~20mA, RS485
Output Current	3A max. for each output
PWM Frequency	70~1000Hz
Dither Frequency	70~500Hz
Ramp Up and Down	0.1 ~ 5.0s
Reference Voltage	5V (max. current 5mA)
Operating Conditions	-20 ~ 60°C
Communication Interface	RS485
Communication Protocol	Modbus RTU
Weight	0.1kg

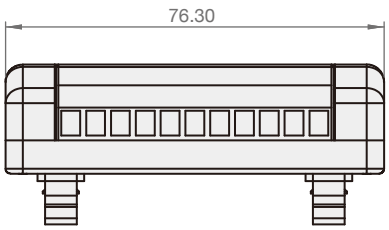
CONNECTIONS & DIMENSIONS (UNIT : mm)

Wiring Instruction		
1	GND	Ground (VS+ / CMD)
2	VS+	Power source
3	CoilA+	Coil A output+
4	CoilA-	Coil A output-
5	CoilB+	Coil B output+
6	CoilB-	Coil B output-
7	CMD1	Command signal 1
8	CMD2	Command signal 2
9	5Vref	5V reference voltage
10	D+	RS485+
11	D-	RS485-









OPERATING MODE

	MODE 1	MODE 2	MODE 3
LED Color	Orange	Green	Red
Description	Single Command vs. Single Output	Dual Indep. Command vs. Dual Indep. Output	Single Command vs. Dual Linked Output

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** Using a USB-RS485 converter, you can operate and configure parameters via the PC software provided by our company. Please mail us to get the PC software : info@steedmachinery.com.tw.

CE

This product has been designed and tested to meet specific standards outlined in the European Electromagnetic Compatibility Directive (EMC)2014/30/EU.
Emission: EN 61000-6-4:2019
Immunity: EN 61000-6-2:2019: EN 61000-4-2:2009, EN 61000-4-3:2020, EN 61000-4-8:2010
Certificate No. NE1105240044

SY-DPCA-D-P9-1





FEATURES

· Direct assambly on the DIN43650 solenoid valve
· Control with digital microprocessor
· Simple setup via physical screen and button
· Short, open circuit protection with error code

ORDER CODES

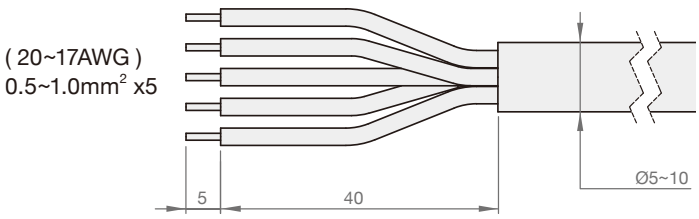
SY - DPCA - D - P9 - 1
1 2 3 4 5

1	Model Name	SY	
2	Control Mode	DPCA	digital proportional controller
3	Type	D	DIN43650A plug
4	Connection	P9	PG9 cable gland
5	Output	1	single coil

MODEL SPEC.

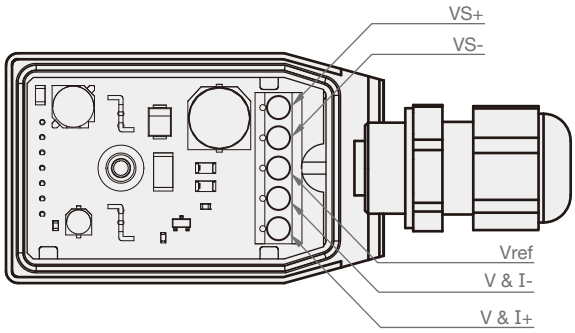
Model	SY-DPCA-D-P9-1
Operating Voltage	9 ~ 32VDC
Voltage Tolerance	5%
Input Signal Options	0~5V, 0~10V, 4~20mA
Output Current	3A max.
Dither Frequency	70 ~ 350Hz
Ramp Up and Down	0.1 ~ 5.0s
Reference Voltage	5V (max. current 5mA)
Operating Conditions	-20 ~ 60°C
Weight	0.2kg

WIRING PAREPARATION

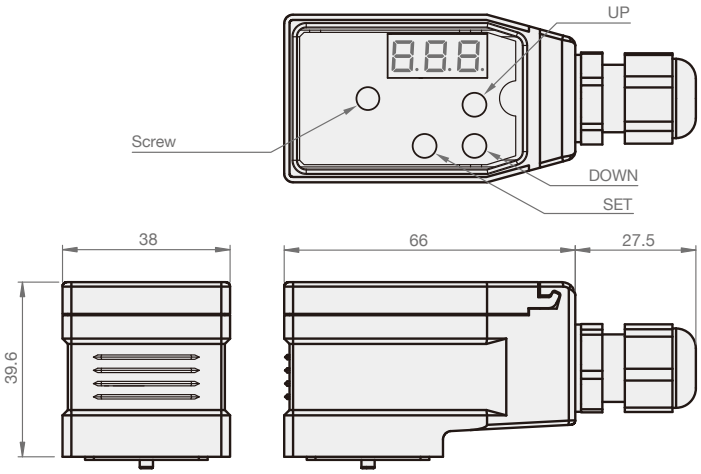


CONNECTIONS

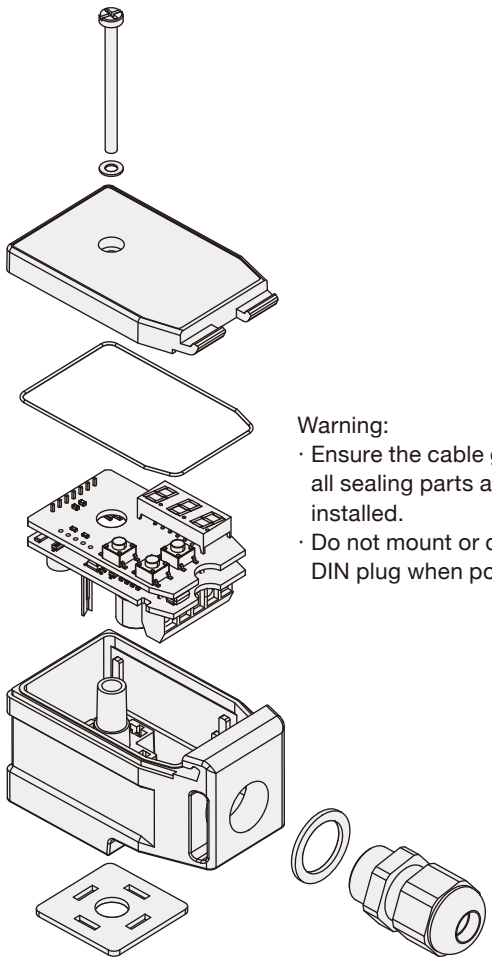
Wiring Instruction		
1	VS+	Power+
2	VS-	Power-
3	Vref	+5V reference voltage
4	V & I-	Command ground
5	V & I+	Command



DIMENSIONS (UNIT : mm)



ASSEMBLY

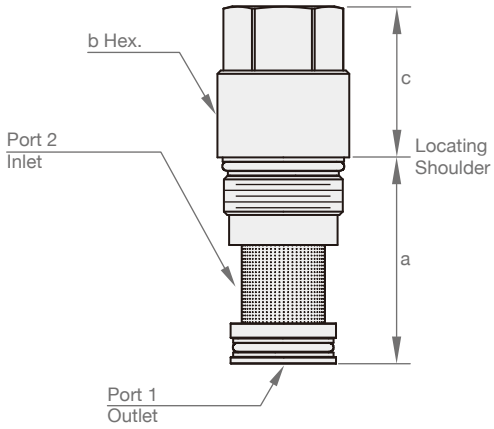


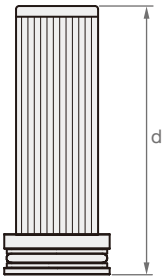
Warning:
- Ensure the cable gland and all sealing parts are properly installed.
- Do not mount or dismount the DIN plug when power is on.

This product has been designed and tested to meet specific standards outlined in the European Electromagnetic Compatibility Directive (EMC)2014/30/EU.
Emission: EN 61000-6-4:2019
Immunity: EN 61000-6-2:2019: EN 61000-4-2:2009, EN 61000-4-3:2020, EN 61000-4-8:2010
Certificate No. NE1105240044

FLA

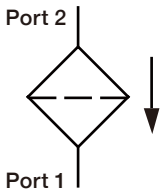
DIMENSION (UNIT : mm)





Model	a	b	c	d
FLA-02	40.0	22.2	30.7	59.5
FLA-03	41.7	28.6	33.3	66.0
FLA-06	62.2	31.8	41.4	97.5
FLA-08	79.5	41.3	54.1	126

SYMBOLS



ORDER CODES

FLA - 02 - T13A - D N U

(1) (1) (3) (4) (5) (6)

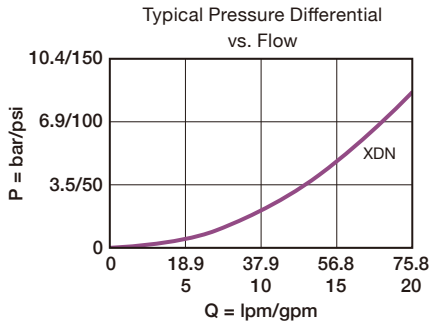
(1)	Model Name	FLA	
(2)	Valve Size	02, 03, 06, 08	
(3)	Cavity	T13A, T5A, T16A, T18A	
(4)	Filter Rating (FLA-02, 03)	D	40um (surface type)
(4)	Filter Rating (FLA-06, 08)	D	40um (surface type)
		A	3um (depth type)
		B	10um (depth type)
		C	25um (depth type)
(5)	Material of Seal	N	buna-N
		V	viton
(6)	Control Manner	U	unadjustable

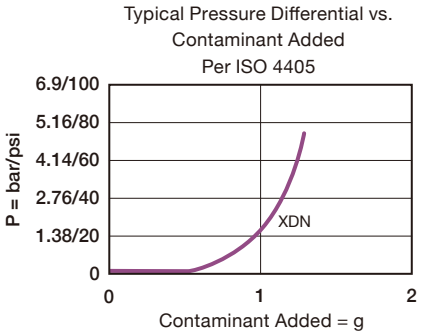
MODEL SPEC.

Model	Cavity	Capacity	Max. Pressure	Installation Torque (Nm)	Operating Temperature	Weight (kg)
FLA-02	T13A	37.9 l/min / 10 gpm	345 bar / 5000 psi	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.09
FLA-03	T5A	75.7 l/min / 20 gpm		60/70		0.19
FLA-06	T16A	151.4 l/min / 40 gpm		200/215		0.315
FLA-08	T18A	302.8 l/min / 80 gpm		465/500		0.71

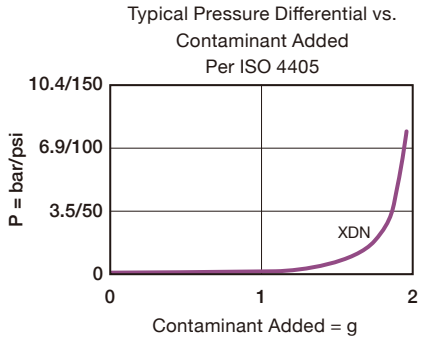
PERFORMANCE CURVES

▸ FLA-02

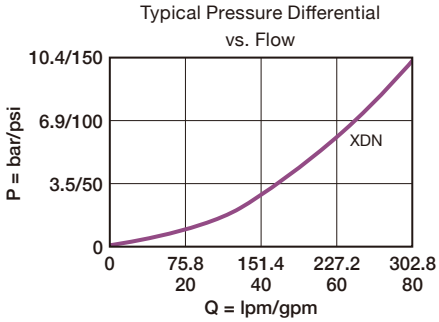


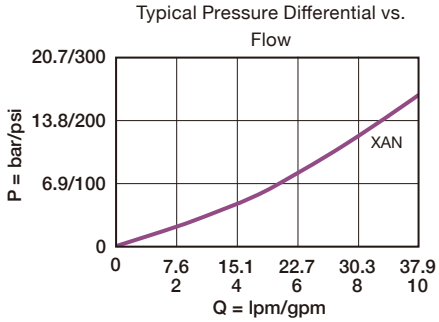


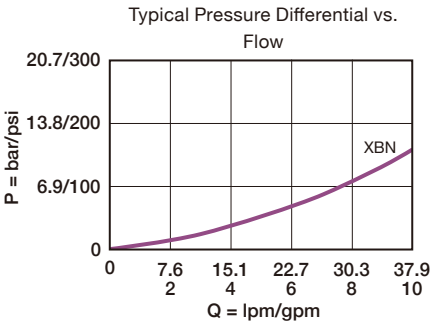
▸ FLA-03

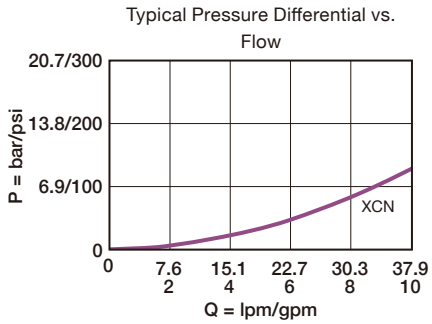


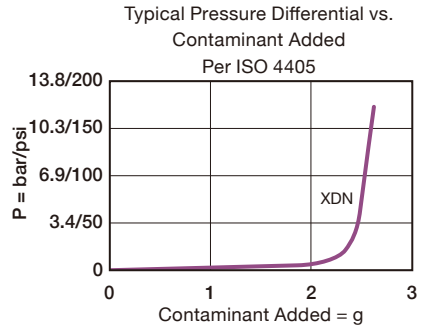
▸ FLA-06

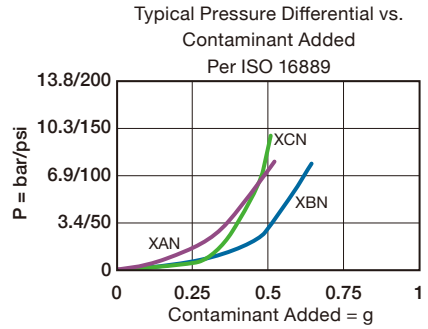








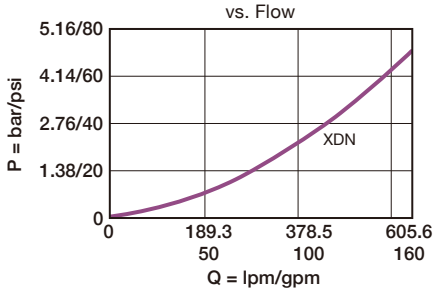




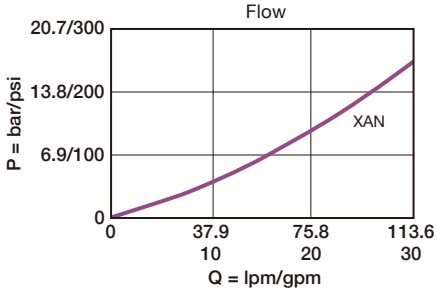
PERFORMANCE CURVES

▸ FLA-08

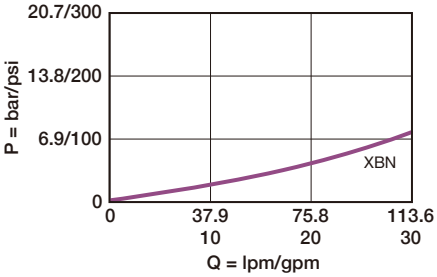
Typical Pressure Differential vs. Flow



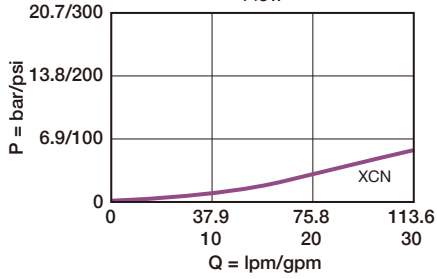
Typical Pressure Differential vs. Flow



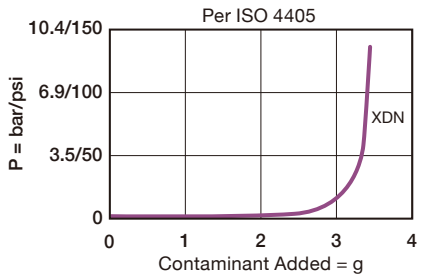
Typical Pressure Differential vs. Flow



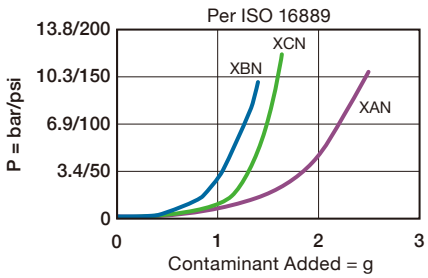
Typical Pressure Differential vs. Flow



Typical Pressure Differential vs. Contaminant Added Per ISO 4405



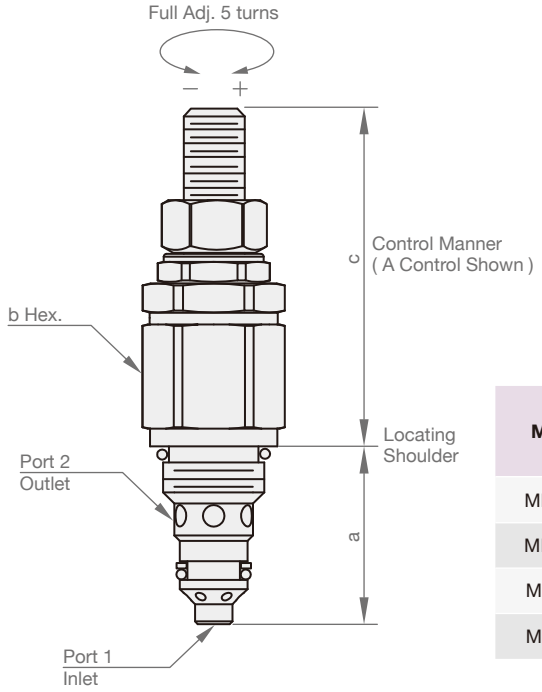
Typical Pressure Differential vs. Contaminant Added Per ISO 16889



MH

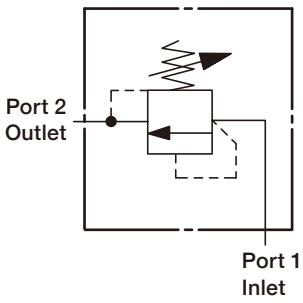
DIMENSION

(UNIT : mm)



Model	a	b	c		
			A	B	C
MH-082	34	24	60	66	48
MH-092	54	26	58	93	36
MH-102	38.8	25.4	58	64	36
MH-122	59	31.8	61	-	67

SYMBOLS



ORDER CODES

MH - 082 - A N A

(1) (2) (3) (4) (5)

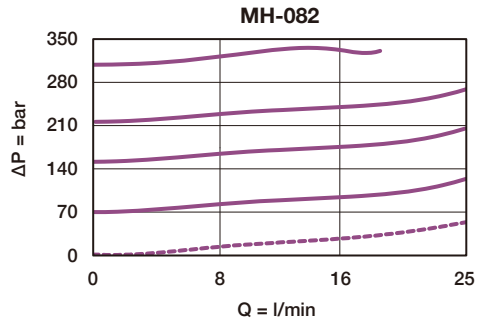
1	Model Name	MH	
2	Valve Size & Cavity	082, 092, 102, 122	
3	Adjustable Range	A	7 ~ 210 bar
		B	3.5 ~105 bar
		C	90 ~ 350 bar
4	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
5	Control Manner	A	adjustable screw
		B	control knob
		C	tamper resistant cover

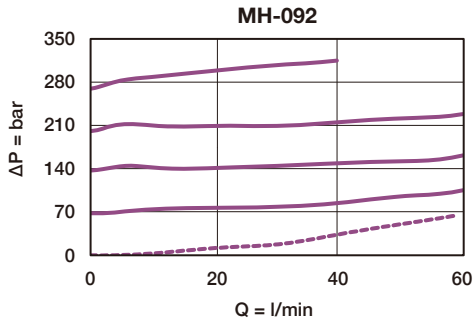
MODEL SPEC.

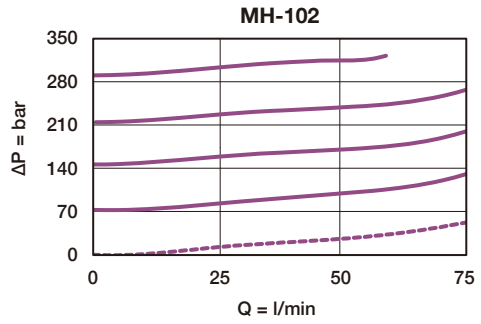
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
MH-082	T082	25	350	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.15
MH-092	T092	45	350	40/50		0.25
MH-102	T102	55	350	40/50		0.20
MH-122	T122	85	280	45/50		0.32

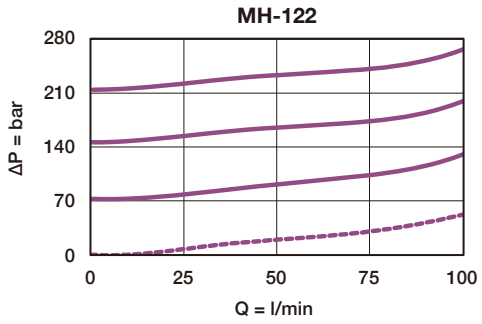
PERFORMANCE CURVES

▸ **Typical Pressure Rise**





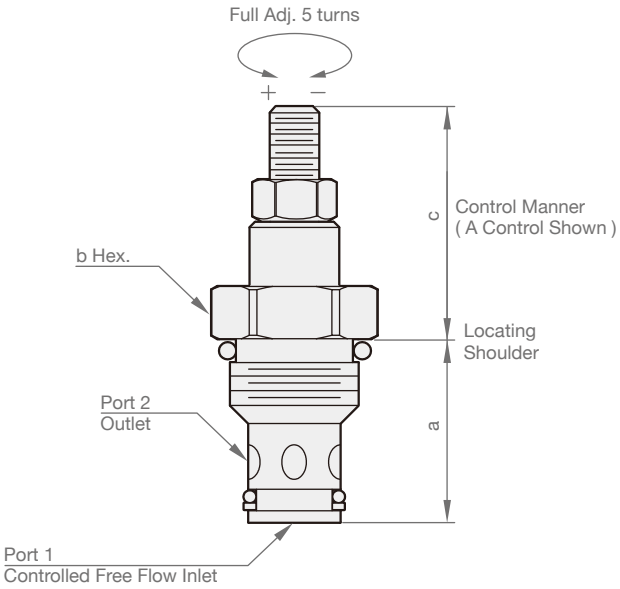




CN

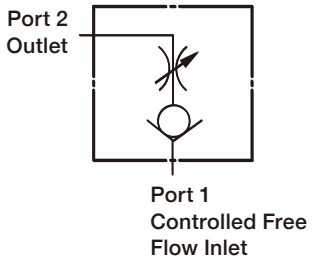
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
CN-082	27.7	22.4	48	53
CN-102	31.8	25.4	51	56
CN-122	46.0	31.8	53	58
CN-162	44.5	38.1	59	64

SYMBOLS



ORDER CODES

CN - 082 - A N A

(1) (2) (3) (4) (5)

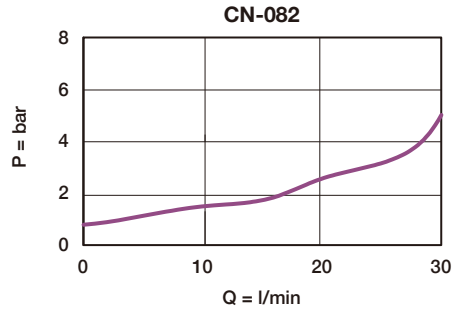
1	Model Name	CN	
2	Cavity & Max. Orifice	082, 102, 122, 162	
3	Cracking Pressure	A	0.3 bar
		C	2.0 bar
		E	5.0 bar
4	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
5	Control Manner	A	adjustable screw
		B	control knob

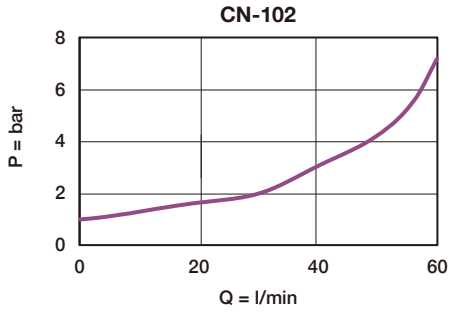
MODEL SPEC.

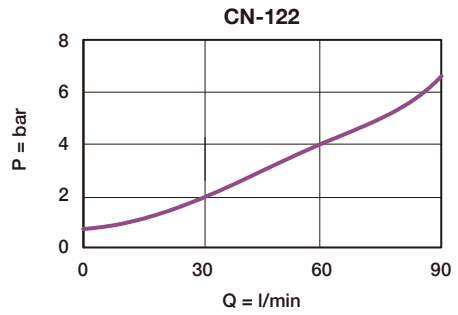
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
CN-082	T082	30	300	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.11
CN-102	T102	50	300	40/50		0.14
CN-122	T122	80	300	40/50		0.26
CN-162	T162	150	300	40/50		0.39

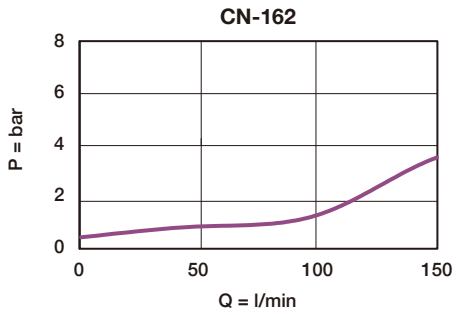
PERFORMANCE CURVES

▸ **Typical Pressure Drop**





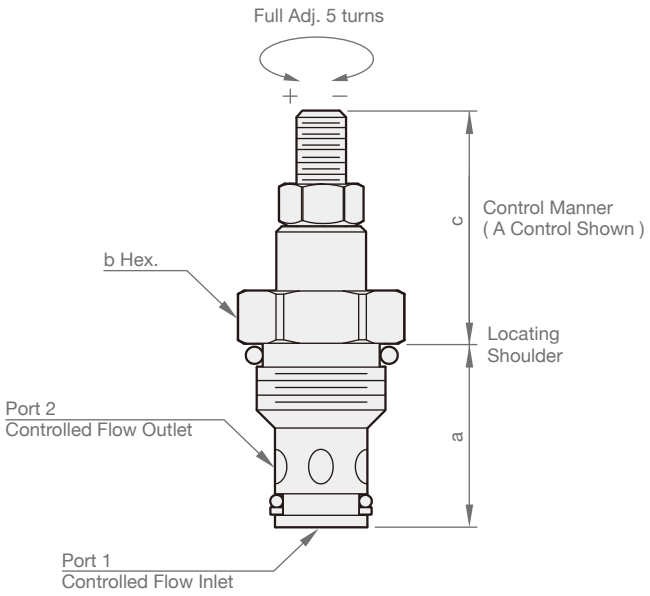




NV

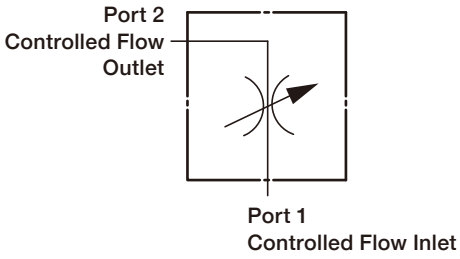
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
NV-082	27.7	22.4	48	53
NV-102	31.8	25.4	51	56
NV-122	46.0	31.8	53	58
NV-162	44.5	38.1	59	64

SYMBOLS



ORDER CODES

NV - 082 - A N A

(1) (2) (3) (4)

1	Model Name	NV	
2	Cavity & Max. Orifice	082	T082, 6.5mm
		102	T102, 8.5mm
		122	T122, 12.5mm
		162	T162, 16mm
3	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
4	Control Manner	A	adjustable screw
		B	control knob

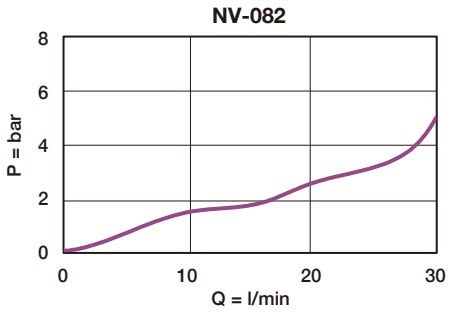
MODEL SPEC.

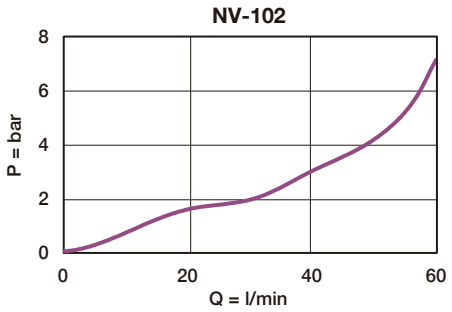
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
NV-082	T082	30	300	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.11
NV-102	T102	50	300	40/50		0.14
NV-122	T122	80	300	40/50		0.26
NV-162	T162	150	300	40/50		0.39

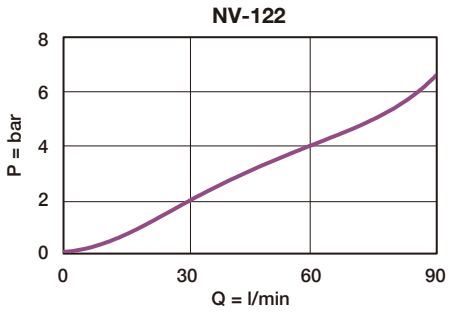
PERFORMANCE CURVES

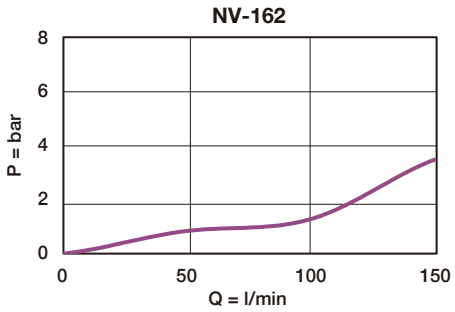
▸ Typical Pressure Drop

Fully Open, Port1 ~ Port2





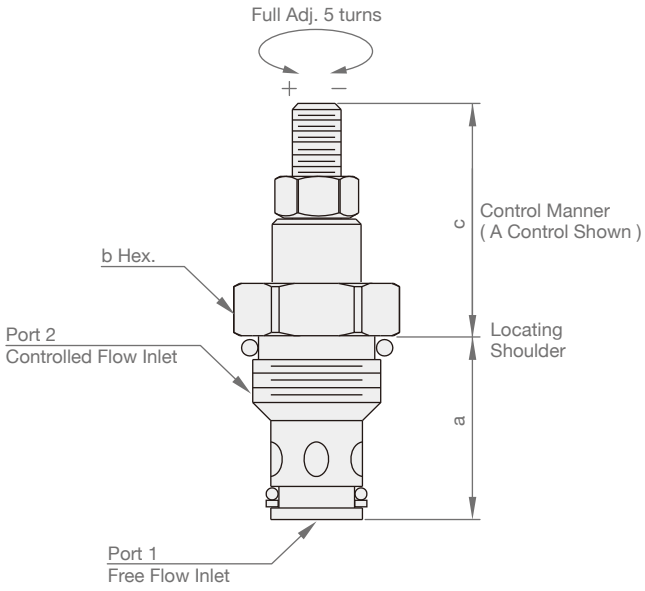




NC

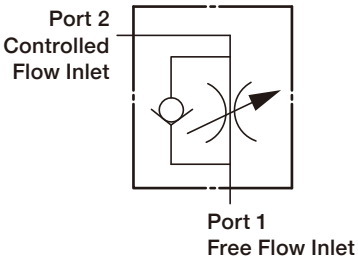
DIMENSION

(UNIT : mm)



Model	a	b	c	
			A	B
NC-082	27.7	22.4	48	53
NC-102	31.8	25.4	51	56
NC-122	46.0	31.8	53	58
NC-162	44.5	38.1	59	64

SYMBOLS



ORDER CODES

NC - 082 - C N A

1 2 3 4 5

1 ▸	Model Name	NC	
2 ▸	Cavity & Max. Orifice	082	T082, 5.9mm
		102	T102, 8mm
		122	T122, 11mm
		162	T162, 13mm
3 ▸	Cracking Pressure	C	2.0 bar
4 ▸	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
5 ▸	Control Manner	A	adjustable screw
		B	control knob

MODEL SPEC.

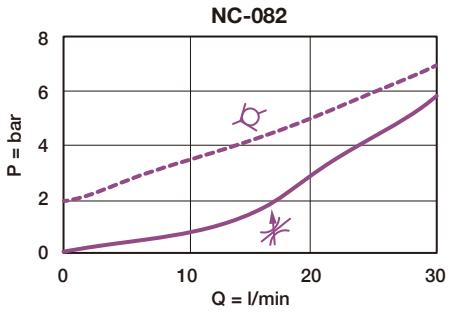
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
NC-082	T082	30	300	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.11
NC-102	T102	50	300	40/50		0.14
NC-122	T122	80	300	40/50		0.26
NC-162	T162	150	300	40/50		0.39

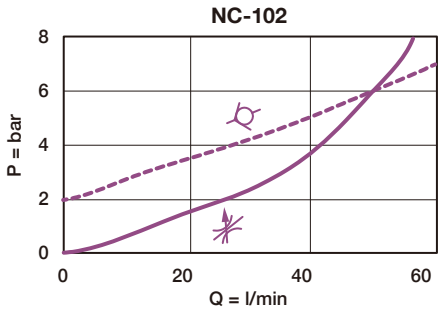
PERFORMANCE CURVES

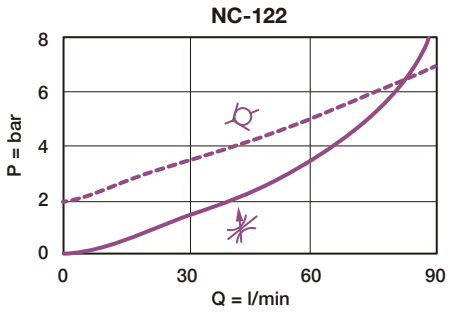
▸ Typical Pressure Drop

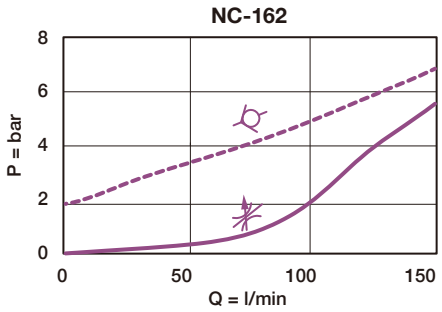
Free Flow, Port1 ~ Port2

Fully Open, Port2 ~ Port1





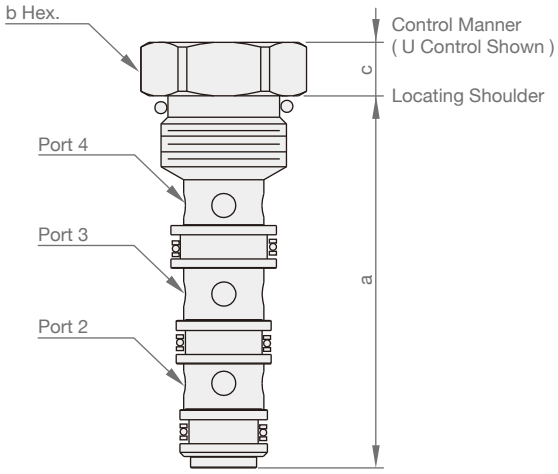




CP

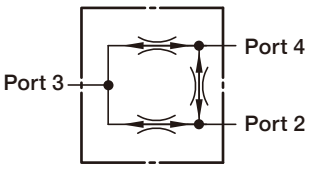
DIMENSION

(UNIT : mm)



Model	a	b	c
			U
CP-104	64.8	25.4	7.9
CP-124	85.1	31.8	9.5
CP-164	105.0	38.1	12.7

SYMBOLS



Flow Ratio:
Port 2 : Port 4 = 1:1

ORDER CODES

CP - 104 - 2 - C N U

(1) (2) (3) (4) (5) (6)

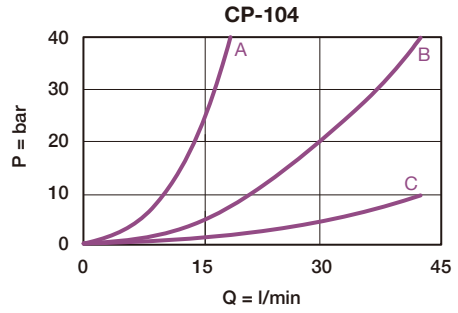
(1)	Model Name	CP	
(2)	Valve Size & Cavity	104, 124, 164	
(3)	Type	none	standard
		2	anti-stall
(4)	Capacity (l/min)	A	CP-104: 7.6, CP-124: 38, CP-164: 91
		B	CP-104: 23, CP-124: 53, CP-164: 114
		C	CP-104: 45, CP-124: 90, CP-164: 150
(5)	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
(6)	Control Manner	U	unadjustable

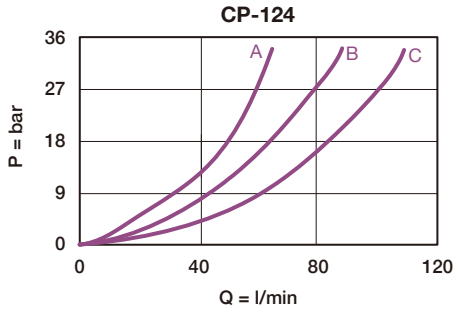
MODEL SPEC.

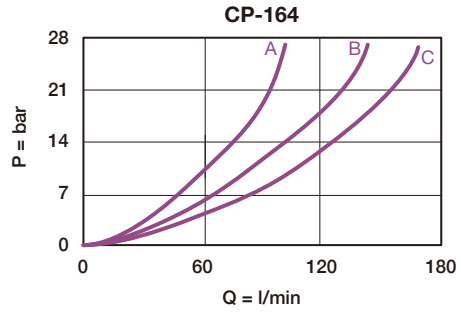
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
CP-104	T104	45	210	35/45	-35 ~ 100°C (-31 ~ 212°F)	0.11
CP-124	T124	90	210	45/55		0.23
CP-164	T164	150	210	60/70		0.37

PERFORMANCE CURVES

▸ **Typical Pressure Drop**



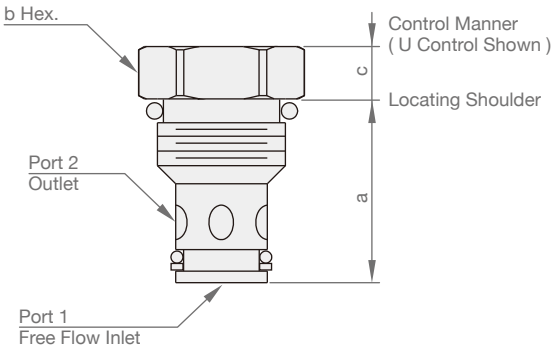




CV

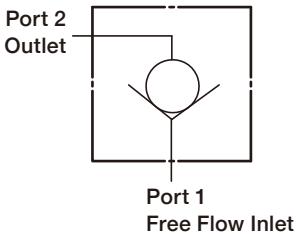
DIMENSION

(UNIT : mm)



Model	a	b	c
			U
CV-082	27.7	22.4	7.9
CV-102	31.8	25.4	7.9
CV-122	46.0	31.8	9.5
CV-162	44.5	38.1	14.0

SYMBOLS



ORDER CODES

CV - 082 - A N U

1 2 3 4 5

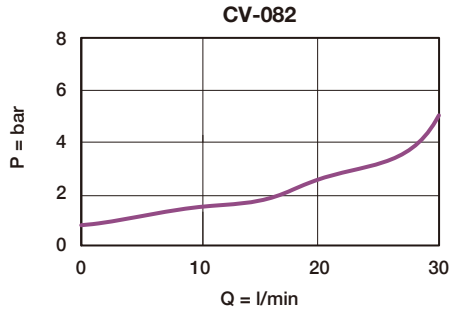
1 ▸	Model Name	CV	
2 ▸	Valve Size & Cavity	082, 102, 122, 162	
3 ▸	Cracking Pressure	A	0.3 bar
		C	2.0 bar
		E	5.0 bar
4 ▸	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
5 ▸	Control Manner	U	unadjustable

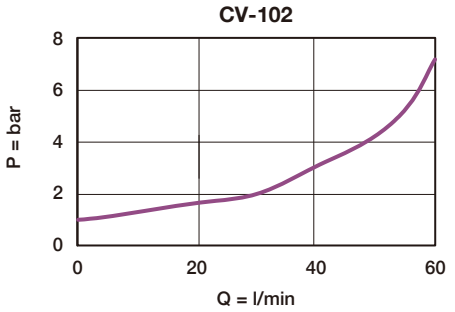
MODEL SPEC.

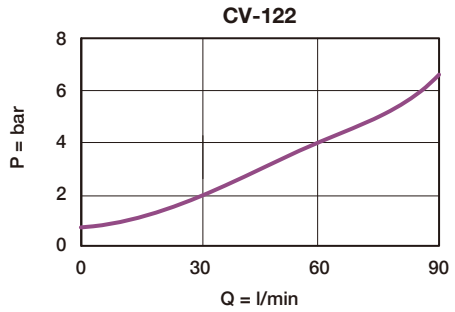
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
CV-082	T082	30	300	40/50	-35 ~ 100°C (-31 ~ 212°F)	0.06
CV-102	T102	50	300	40/50		0.09
CV-122	T122	80	300	40/50		0.15
CV-162	T162	150	300	40/50		0.27

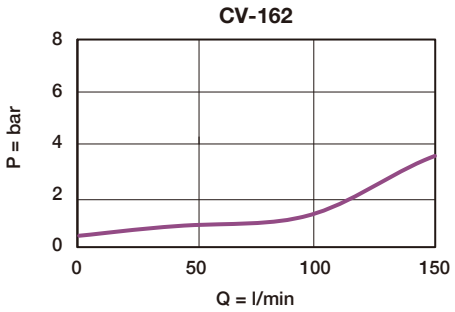
PERFORMANCE CURVES

▸ **Typical Pressure Drop**





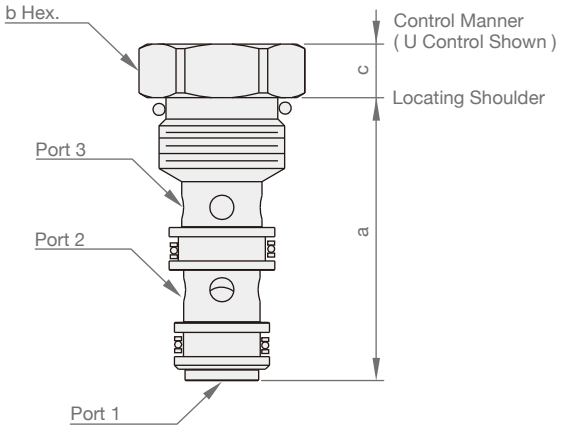




LS

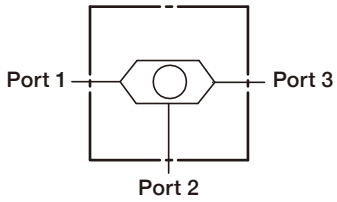
DIMENSION

(UNIT : mm)



Model	a	b	c
			U
LS-083	42.2	22.4	8
LS-103	46.0	25.4	8

SYMBOLS



ORDER CODES

LS - 083 - X N U

1 2 3 4

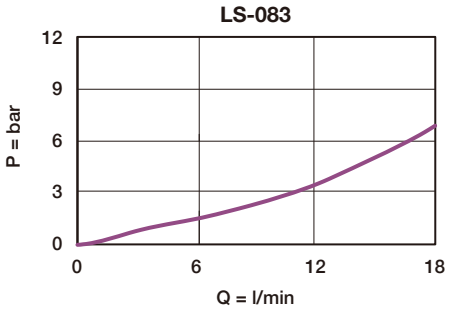
1 ▸	Model Name	LS	
2 ▸	Valve Size & Cavity	083, 103	
3 ▸	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane
4 ▸	Control Manner	U	unadjustable

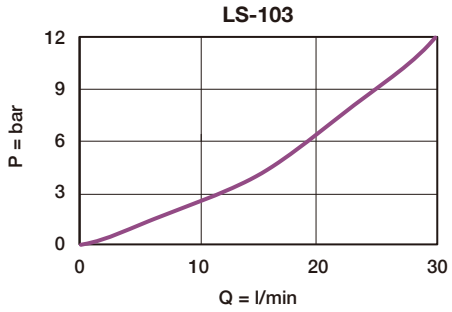
MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
LS-083	T083	15	240	30/40	-35 ~ 100°C (-31 ~ 212°F)	0.06
LS-103	T103	30	240	40/50		0.10

PERFORMANCE CURVES

▸ **Typical Pressure Drop**

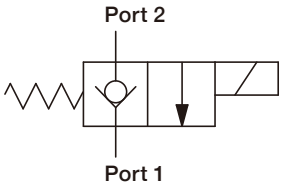




HS, JS, LS, PS-2A



SYMBOLS



ORDER CODES

HS - 2A - 16 - A1
1 2 3 4

1 ▸	Cavity	HS	T082
		JS	T102
		LS	T122
		PS	T162
2 ▸	Type of Valve	2A	
3 ▸	Tube Diameter	16	
4 ▸	Power Source	A1	RAC110V
		A2	RAC220V
		D1	DC12V
		D2	DC24V

MODEL SPEC.

Model	Cavity	Tube Diameter	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Weight (kg)
HS-2A	T082	16	28	250	39/51	0.41
JS-2A	T102	16	50	250	39/51	0.43
LS-2A	T122	16	100	250	39/51	0.53
PS-2A	T162	16	150	250	39/51	0.62

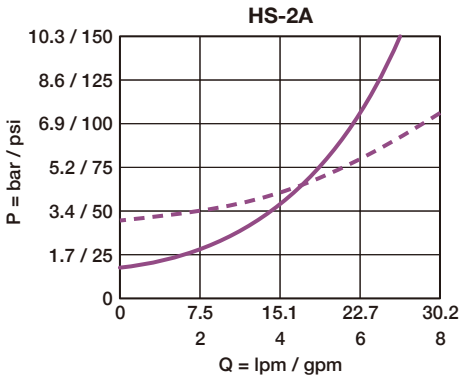
PERFORMANCE CURVES

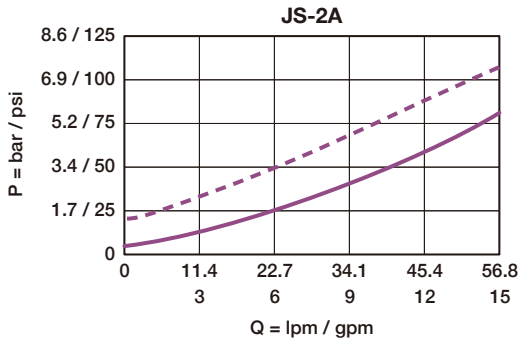
▸ Typical Pressure Drop

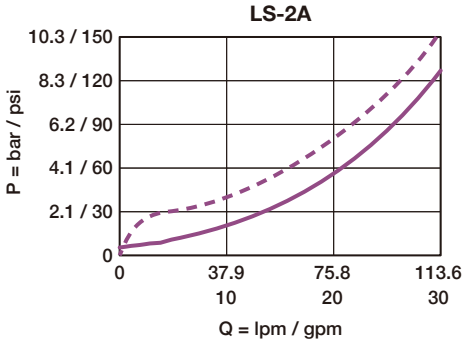
- - - - de-energized, Port 1 → Port 2

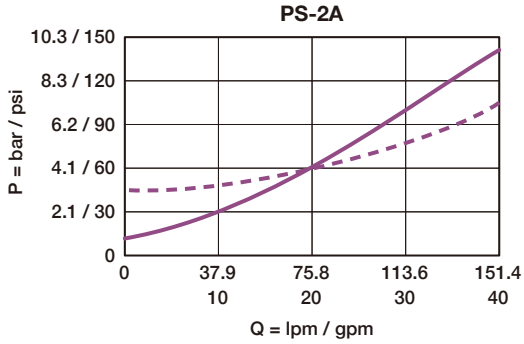
——— energized, Port 2 → Port 1

* 32cSt / 150 ssu oil at 40°C



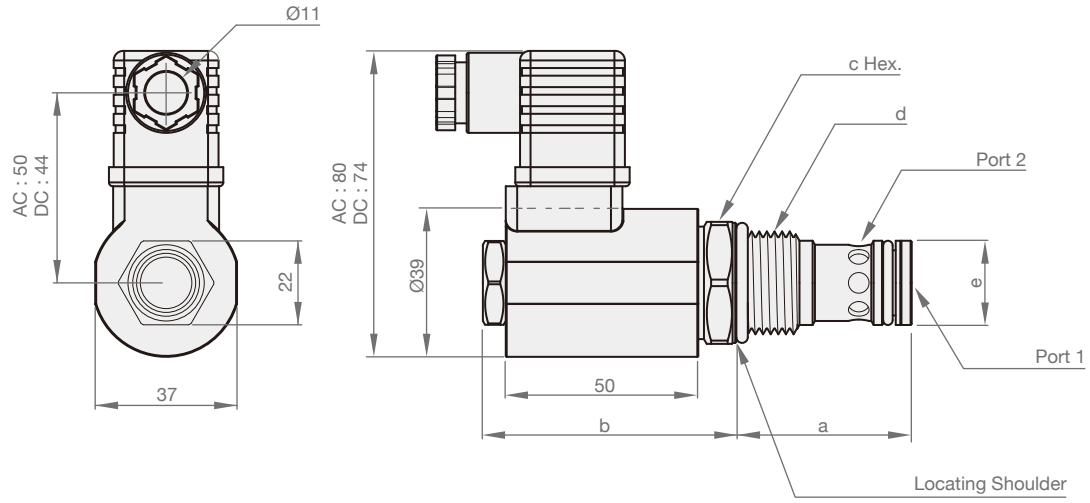






DIMENSION

(UNIT : mm)

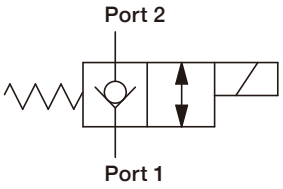


Model	a	b	c	d	e
HS-2A	28	64	22	3/4"-16UNF	12.7
JS-2A	32	64	25.4	7/8"-14UNF	15.8
LS-2A	45	64	32	1 1/16"-12UNF	22.2
PS-2A	45	65	38	1 5/16"-12UNF	28.6

HS, JS, LS, PS-2B



SYMBOLS



ORDER CODES

HS - 2B - 16 - A2
1 2 3 4

1 ▸	Cavity	HS	T082
		JS	T102
		LS	T122
		PS	T162
2 ▸	Type of Valve	2B	
3 ▸	Tube Diameter	16	
4 ▸	Power Source	A1	RAC110V
		A2	RAC220V
		D1	DC12V
		D2	DC24V

MODEL SPEC.

Model	Cavity	Tube Diameter	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Weight (kg)
HS-2B	T082	16	28	250	39/51	0.41
JS-2B	T102	16	50	250	39/51	0.43
LS-2B	T122	16	100	250	39/51	0.53
PS-2B	T162	16	150	250	39/51	0.62

PERFORMANCE CURVES

▸ Typical Pressure Drop

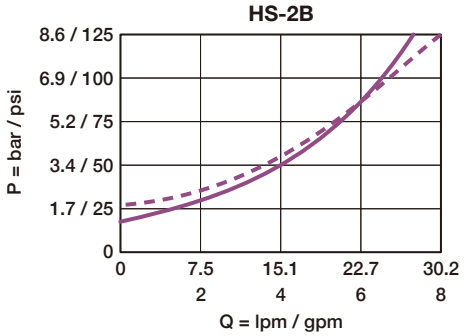
HS-2B, PS-2B

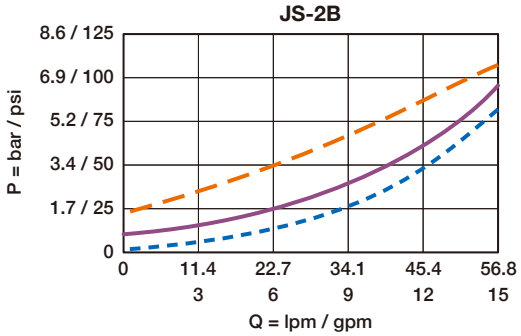
- de-energized, Port 1 → Port 2
- energized, Port 2 → Port 1

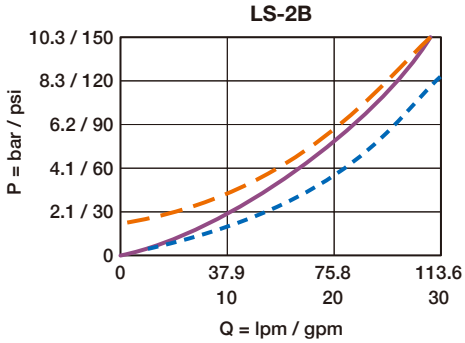
JS-2B, LS-2B

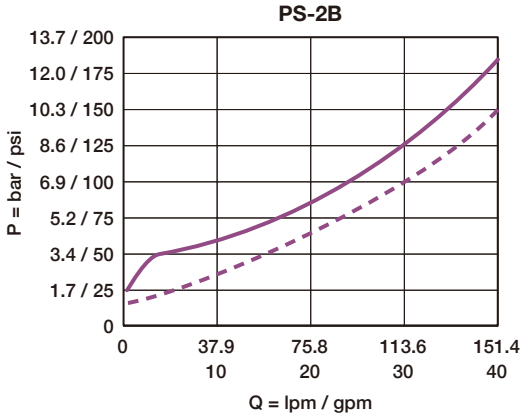
- de-energized, Port 1 → Port 2
- energized, Port 2 → Port 1
- energized, Port 1 → Port 2

* 32cSt / 150 ssu oil at 40°C



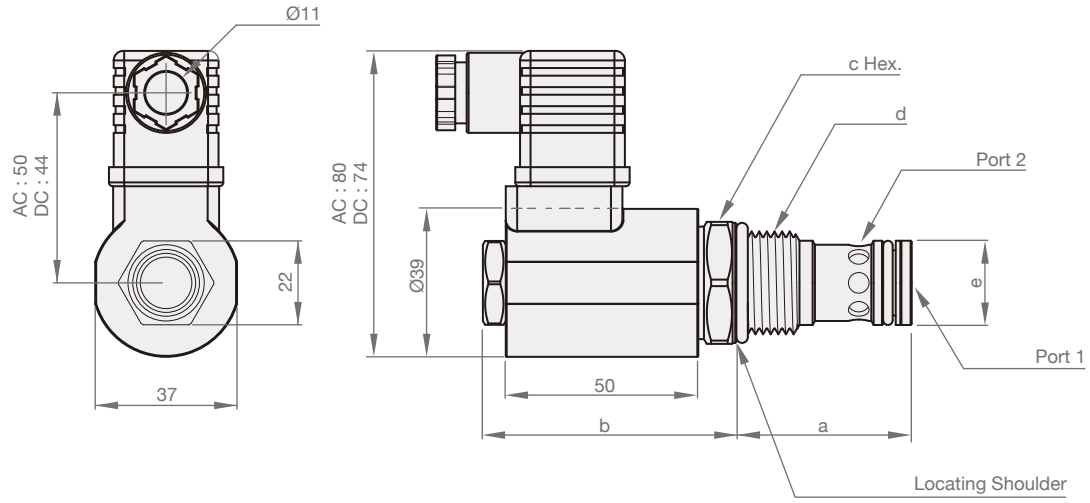






DIMENSION

(UNIT : mm)

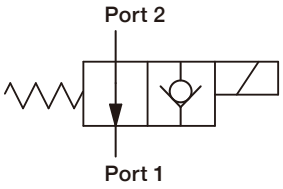


Model	a	b	c	d	e
HS-2B	28	64	22	3/4"-16UNF	12.7
JS-2B	32	64	25.4	7/8"-14UNF	15.8
LS-2B	45	64	32	1 1/16"-12UNF	22.2
PS-2B	45	65	38	1 5/16"-12UNF	28.6

HS, JS, LS, PS-2C



SYMBOLS



ORDER CODES

JS - 2C - 16 - A1
1 2 3 4

1 ▸	Cavity	HS	T082
		JS	T102
		LS	T122
		PS	T162
2 ▸	Type of Valve	2C	
3 ▸	Tube Diameter	16	
4 ▸	Power Source	A1	RAC110V
		A2	RAC220V
		D1	DC12V
		D2	DC24V

MODEL SPEC.

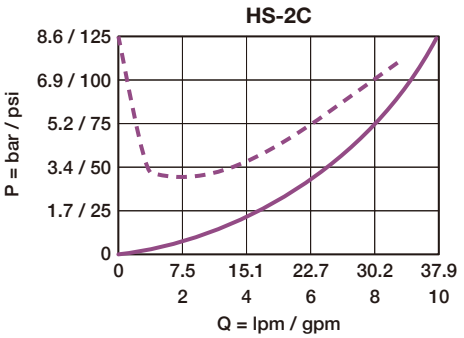
Model	Cavity	Tube Diameter	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Weight (kg)
HS-2C	T082	16	28	250	39/51	0.41
JS-2C	T102	16	50	250	39/51	0.43
LS-2C	T122	16	100	250	39/51	0.56
PS-2C	T162	16	150	250	39/51	0.67

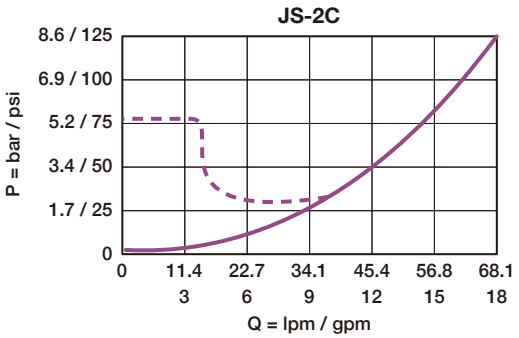
PERFORMANCE CURVES

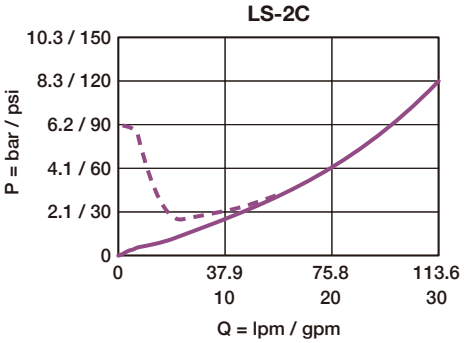
▸ Typical Pressure Drop

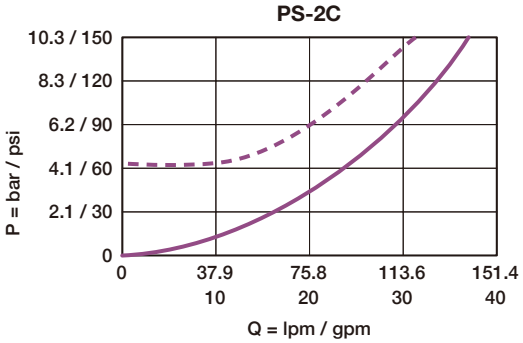
- energized, Port 1 → Port 2
- de-energized, Port 2 → Port 1

* 32cSt / 150 ssu oil at 40°C



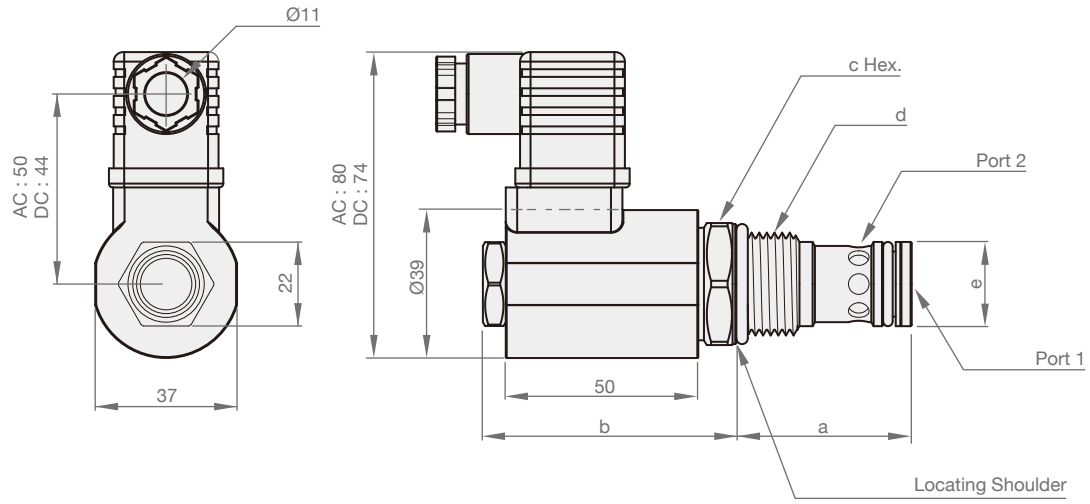






DIMENSION

(UNIT : mm)

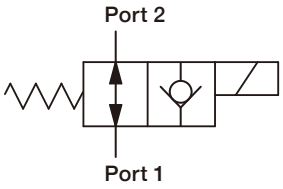


Model	a	b	c	d	e
HS-2C	28	64	22	3/4"-16UNF	12.7
JS-2C	32	64	25.4	7/8"-14UNF	15.8
LS-2C	45	64	32	1 1/16"-12UNF	22.2
PS-2C	45	65	38	1 5/16"-12UNF	28.6

HS, JS, LS, PS-2D



SYMBOLS



ORDER CODES

JS - 2D - 16 - A2
1 2 3 4

1 ▸	Cavity	HS	T082
		JS	T102
		LS	T122
		PS	T162
2 ▸	Type of Valve	2D	
3 ▸	Tube Diameter	16	
4 ▸	Power Source	A1	RAC110V
		A2	RAC220V
		D1	DC12V
		D2	DC24V

MODEL SPEC.

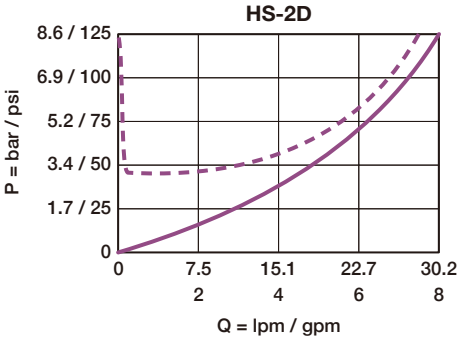
Model	Cavity	Tube Diameter	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Weight (kg)
HS-2D	T082	16	28	250	39/51	0.41
JS-2D	T102	16	50	250	39/51	0.46
LS-2D	T122	16	100	250	39/51	0.56
PS-2D	T162	16	150	250	39/51	0.67

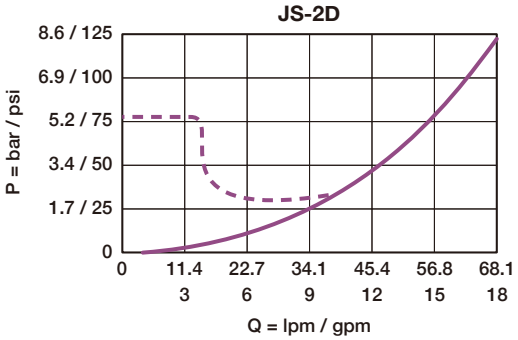
PERFORMANCE CURVES

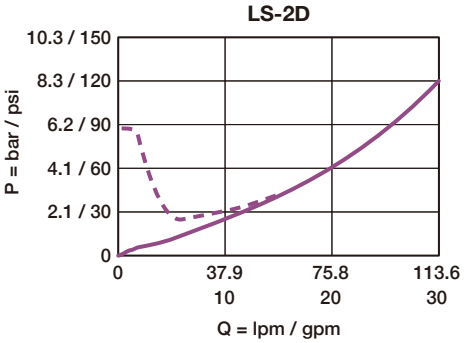
▸ Typical Pressure Drop

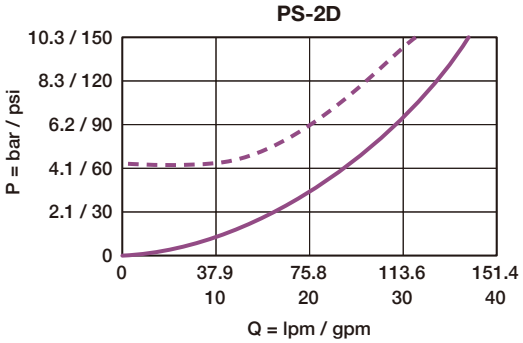
- energized, Port 1 → Port 2
- de-energized, Port 2 → Port 1

* 32cSt / 150 ssu oil at 40°C



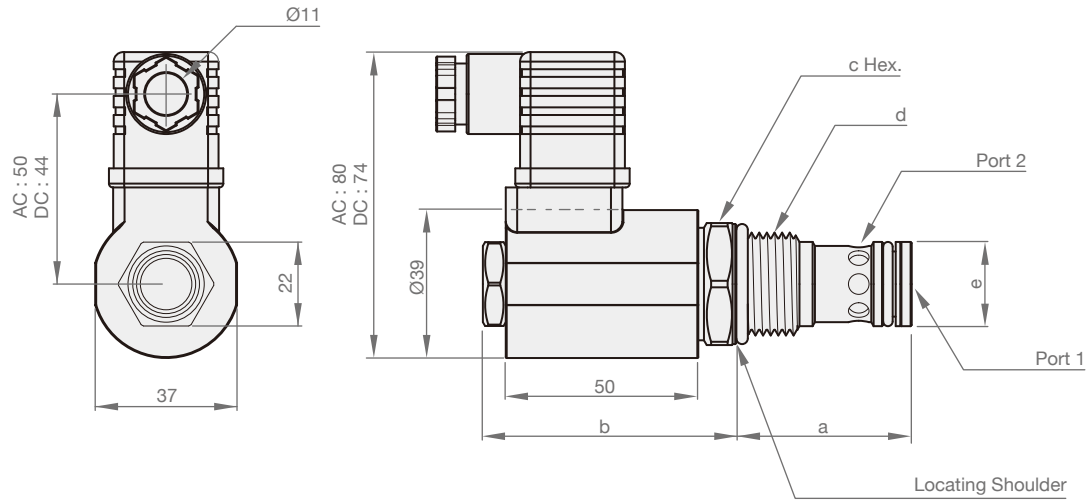






DIMENSION

(UNIT : mm)

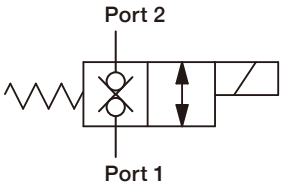


Model	a	b	c	d	e
HS-2D	28	64	22	3/4"-16UNF	12.7
JS-2D	32	64	25.4	7/8"-14UNF	15.8
LS-2D	45	64	32	1 1/16"-12UNF	22.2
PS-2D	45	65	38	1 5/16"-12UNF	28.6

HS, JS, LS, PS-2I



SYMBOLS



ORDER CODES

PS - 2I - 19 - D1
1 2 3 4

1 ▸	Cavity	HS	T082
		JS	T102
		LS	T122
		PS	T162
2 ▸	Type of Valve	2I	
3 ▸	Tube Diameter	16, 19	
4 ▸	Power Source	A1	RAC110V
		A2	RAC220V
		D1	DC12V
		D2	DC24V

MODEL SPEC.

Model	Cavity	Tube Diameter	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Weight (kg)
HS-2I	T082	16	28	250	39/51	0.41
JS-2I	T102	16	50	250	39/51	0.45
LS-2I	T122	16	100	250	39/51	0.56
PS-2I	T162	19	150	250	39/51	0.67

PERFORMANCE CURVES

▸ Typical Pressure Drop

HS-2I

energized,
Port 2 ↔ Port 1

JS-2I

energized,
Port 1 → Port 2

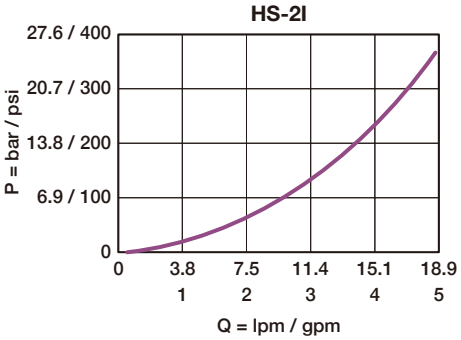
energized,
Port 2 → Port 1

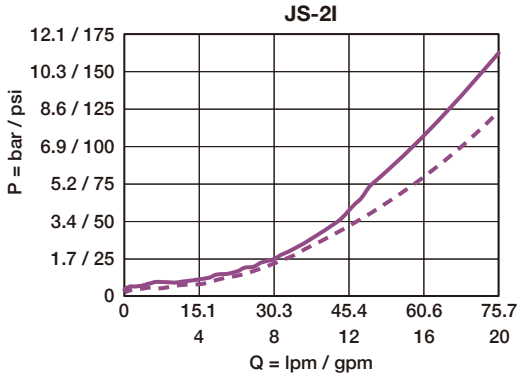
LS-2I, PS-2I

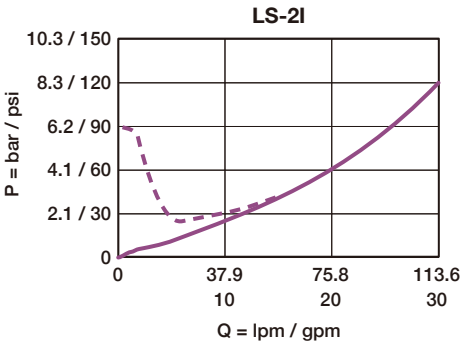
energized,
Port 1 → Port 2

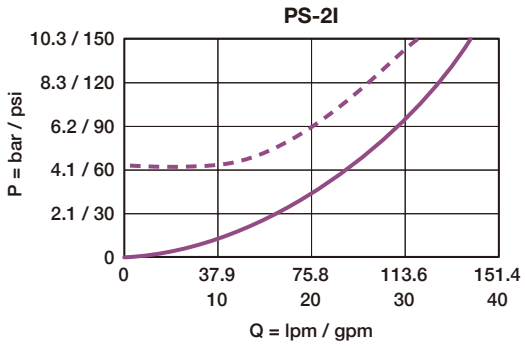
de-energized,
Port 2 → Port 1

* 32cSt / 150 ssu oil at 40°C



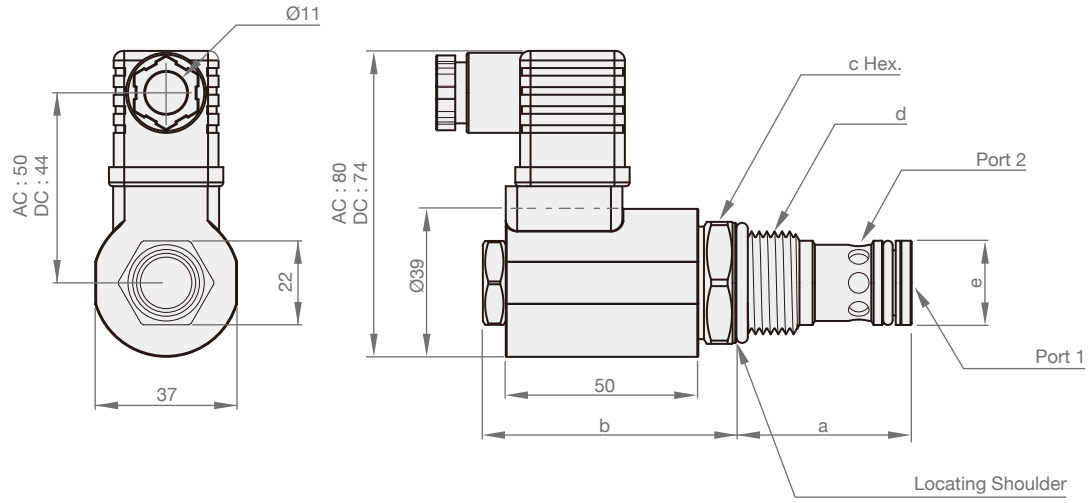






DIMENSION

(UNIT : mm)

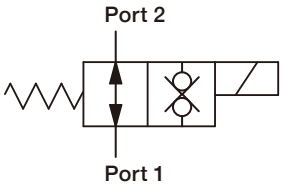


Model	a	b	c	d	e
HS-2I	28	64	22	3/4"-16UNF	12.7
JS-2I	32	64	25.4	7/8"-14UNF	15.8
LS-2I	45	64	32	1 1/16"-12UNF	22.2
PS-2I	45	65	38	1 5/16"-12UNF	28.6

HS, JS, LS, PS-2J



SYMBOLS



ORDER CODES

LS - 2J - 16 - D2
1 2 3 4

1 ▸	Cavity	HS	T082
		JS	T102
		LS	T122
		PS	T162
2 ▸	Type of Valve	2J	
3 ▸	Tube Diameter	16	
4 ▸	Power Source	A1	RAC110V
		A2	RAC220V
		D1	DC12V
		D2	DC24V

MODEL SPEC.

Model	Cavity	Tube Diameter	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Weight (kg)
HS-2J	T082	16	28	250	39/51	0.41
JS-2J	T102	16	50	250	39/51	0.43
LS-2J	T122	16	100	250	39/51	0.56
PS-2J	T162	16	150	250	39/51	0.67

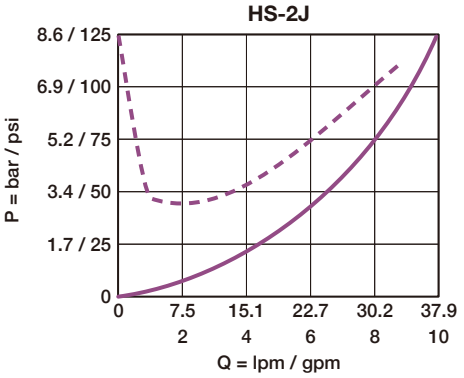
PERFORMANCE CURVES

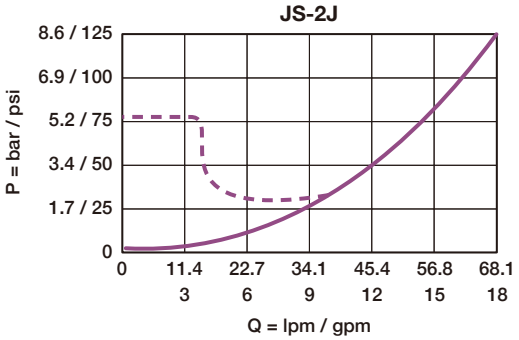
▸ Typical Pressure Drop

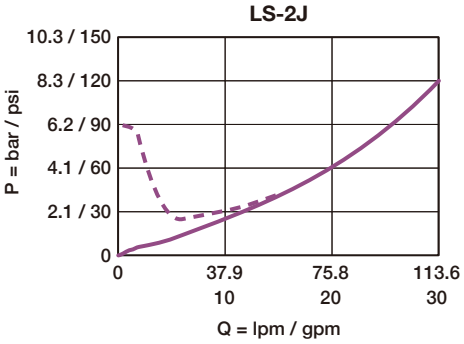
energized, Port 1 → Port 2

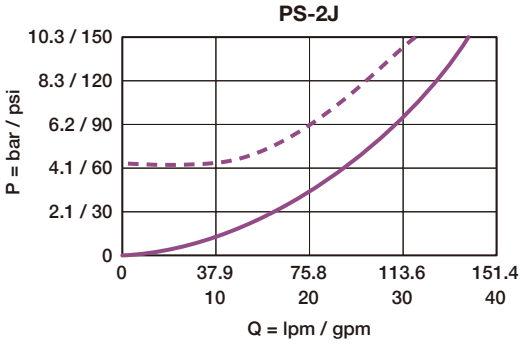
de-energized, Port 2 → Port 1

* 32cSt / 150 ssu oil at 40°C



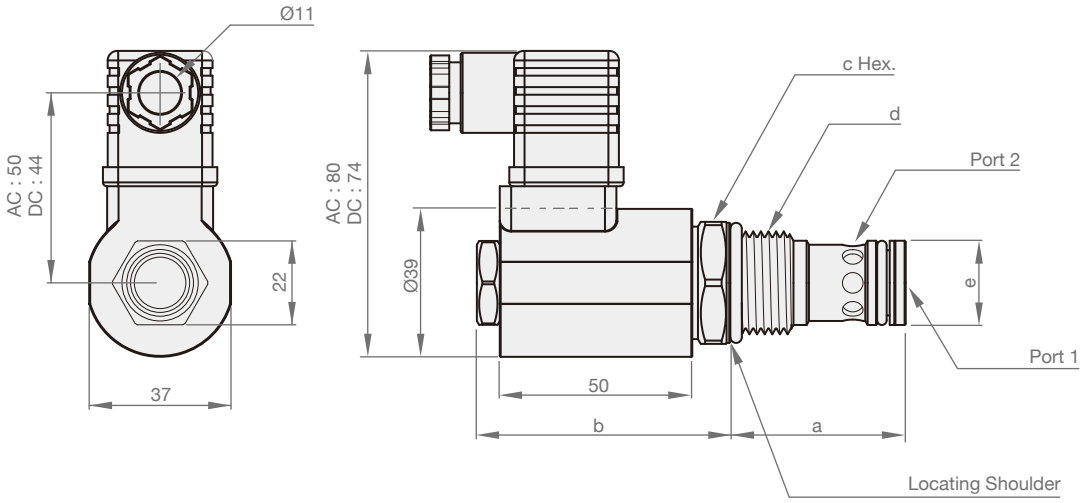






DIMENSION

(UNIT : mm)



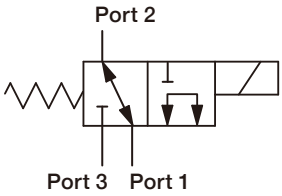
Model	a	b	c	d	e
HS-2J	28	64	22	3/4"-16UNF	12.7
JS-2J	32	64	25.4	7/8"-14UNF	15.8
LS-2J	45	64	32	1 1/16"-12UNF	22.2
PS-2J	45	65	38	1 5/16"-12UNF	28.6

HS-3A





SYMBOLS



ORDER CODES

HS - 3A - 16 - D2

1	Cavity	HS	T082
		JS	T102
2	Type of Valve	3A	
3	Tube Diameter	16	
4	Power Source	A1	RAC110V
		A2	RAC220V
		D1	DC12V
		D2	DC24V

MODEL SPEC.

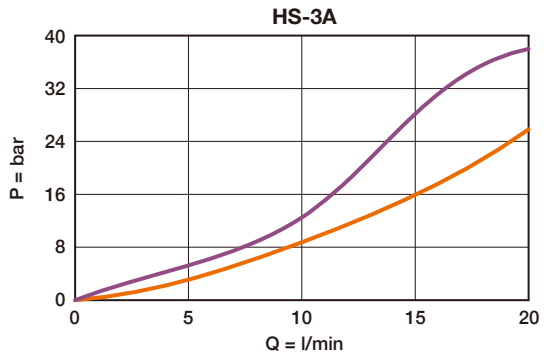
Model	Cavity	Tube Diameter	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Weight (kg)
HS-3A	T082	16	15	250	39/51	0.43
JS-3A	T102	16		250	39/51	

PERFORMANCE CURVES

▸ Typical Pressure Drop

Port 1 → Port 3

Port 1 → Port 2
Port 2 → Port 1



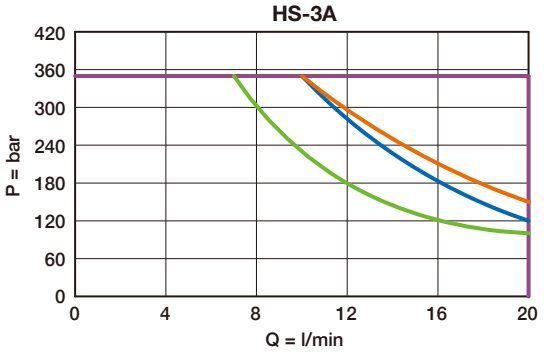
▸ Limits of Application

Port 1 → Port 3

Port 2 → Port 1

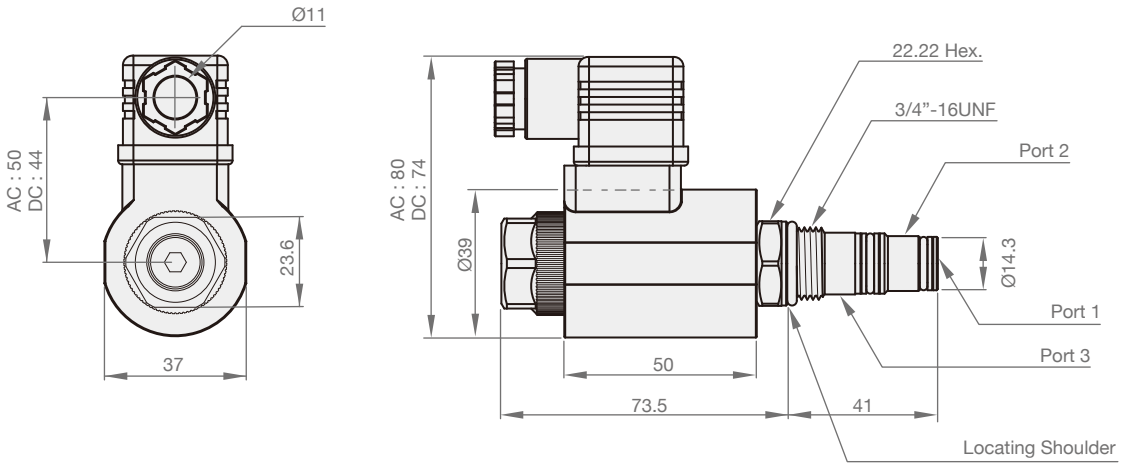
Port 3 → Port 1

Port 1 → Port 2



DIMENSION (UNIT : mm)

▸ HS-3A

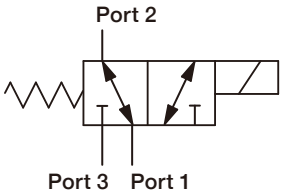


HS-3X





SYMBOLS



ORDER CODES

HS - 3X - 16 - A2

1	Cavity	HS	T082
		JS	T102
2	Type of Valve	3X	
3	Tube Diameter	16	
4	Power Source	A1	RAC110V
		A2	RAC220V
		D1	DC12V
		D2	DC24V

MODEL SPEC.

Model	Cavity	Tube Diameter	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Weight (kg)
HS-3X	T082	16	13	207	39/51	0.43
JS-3X	T102	16	38	207	39/51	0.52

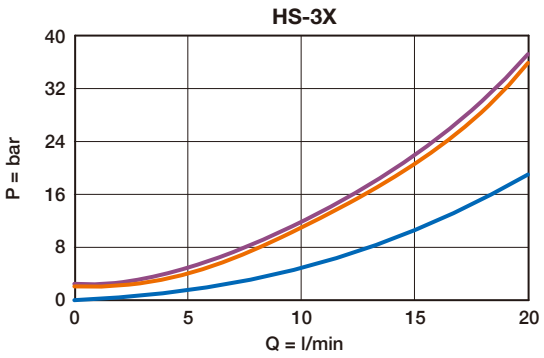
PERFORMANCE CURVES

▸ Typical Pressure Drop

Port 3 → Port 2

Port 2 → Port 3

Port 1 → Port 2
Port 2 → Port 1

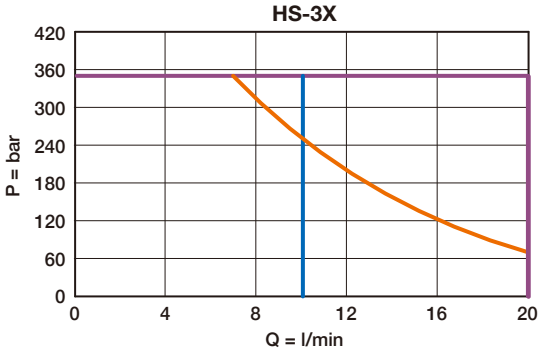


▸ Limits of Application

Port 2 → Port 3
Port 3 → Port 2

Port 1 → Port 2

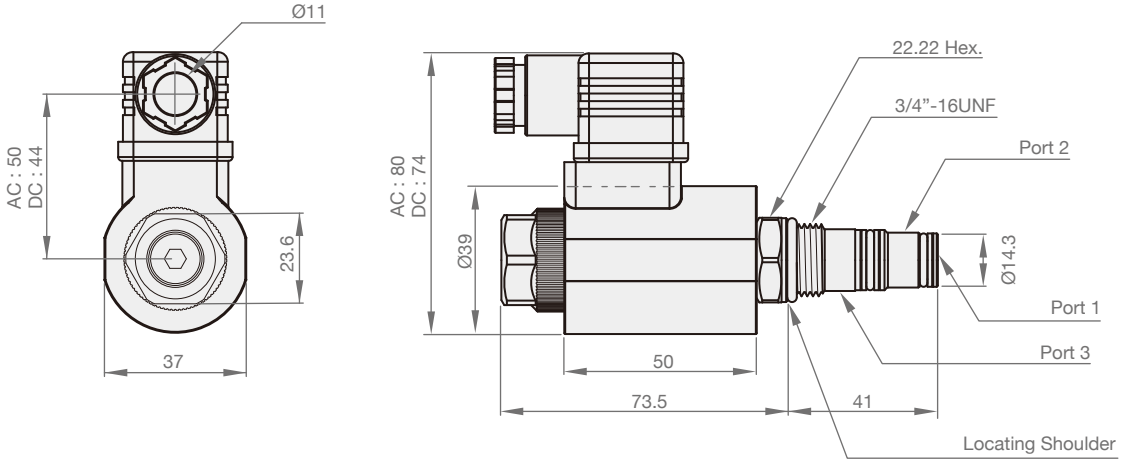
Port 2 → Port 1



DIMENSION

(UNIT : mm)

▸ HS-3X

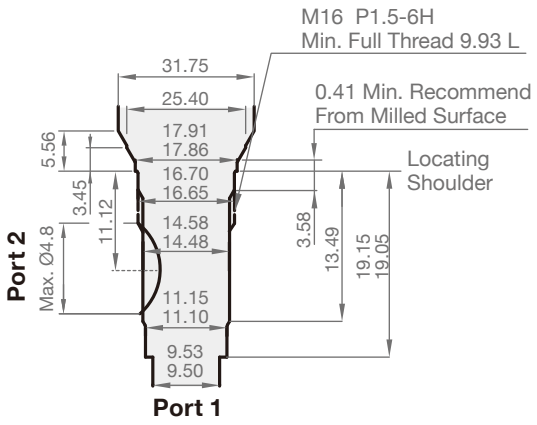


Cavities Tooling

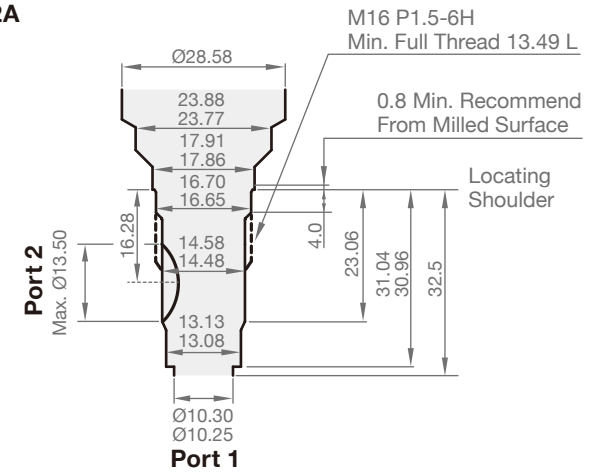
2 Port Cavities Tooling

(UNIT : mm)

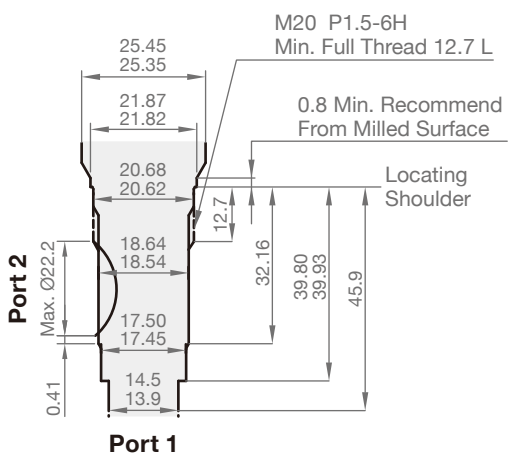
▸ T8A



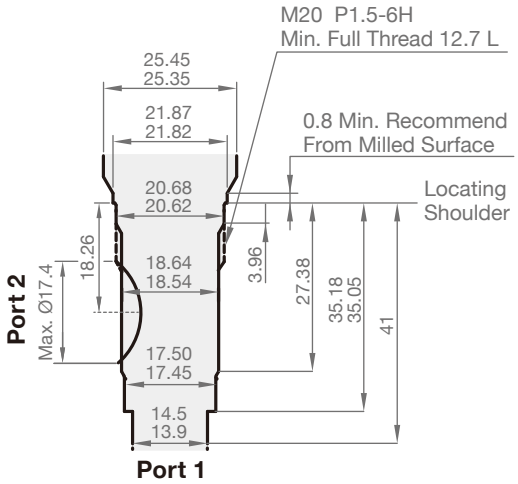
▸ T162A



▸ T10A

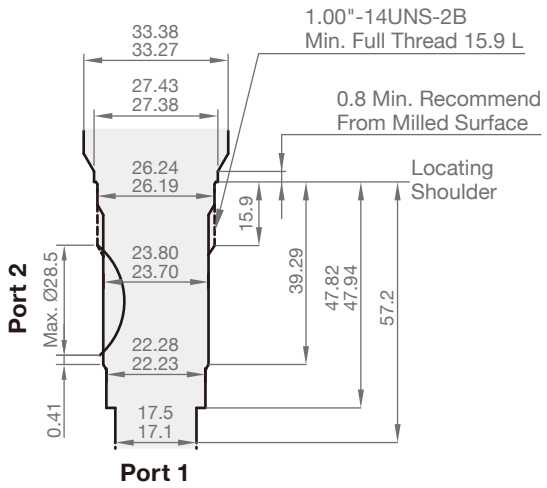


▸ T13A

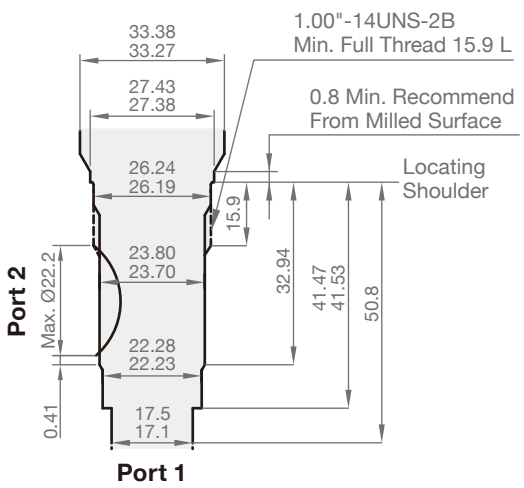


Size	Cavity
01	T8A, T162A
02	T10A, T13A
03	T3A, T5A
06	T16A
08	T18A

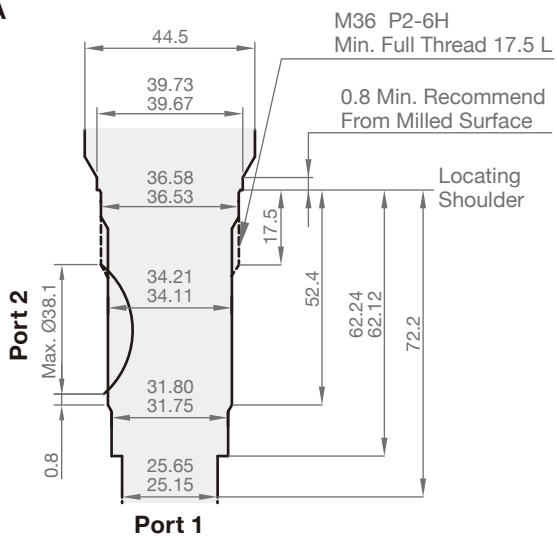
▸ **T3A**



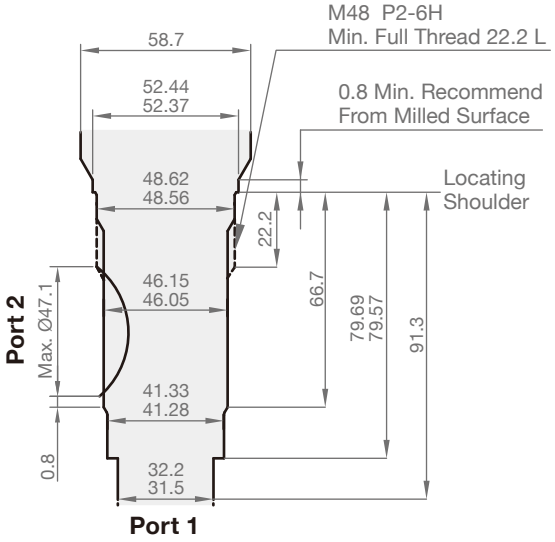
▸ **T5A**



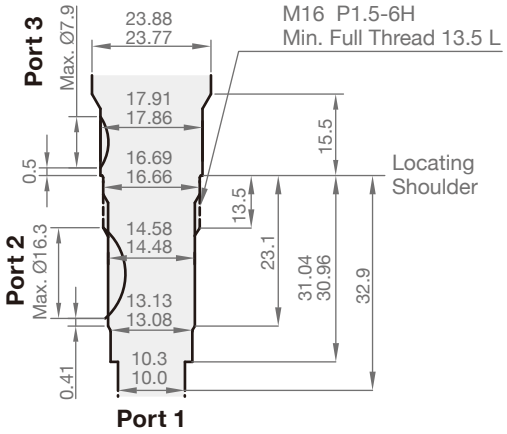
▸ **T16A**



▸ **T18A**

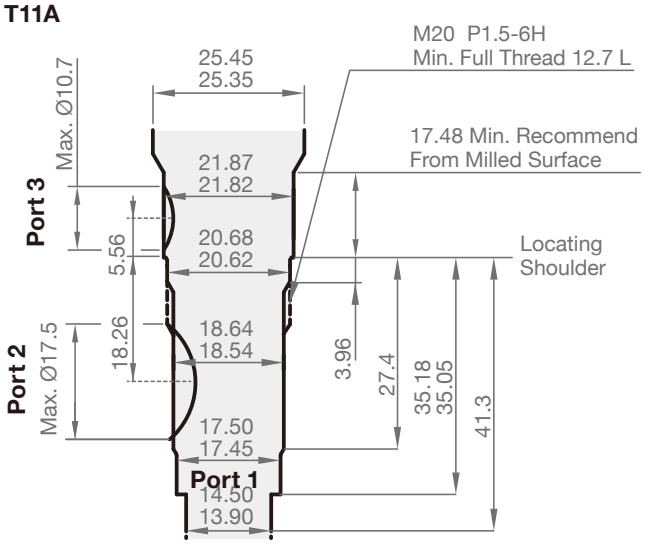


▸ T163A

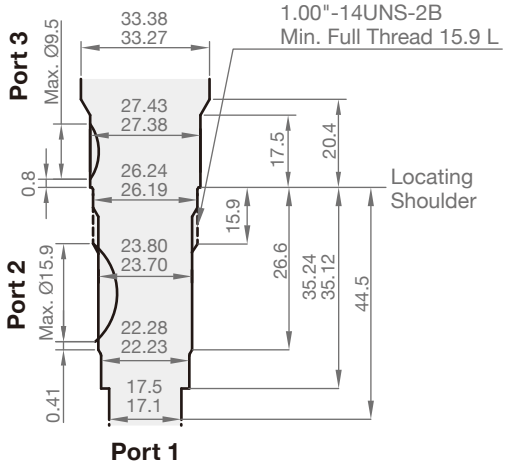


Size	Cavity
01	T163A
02	T11A
03	T2A
06	T17A
08	T19A

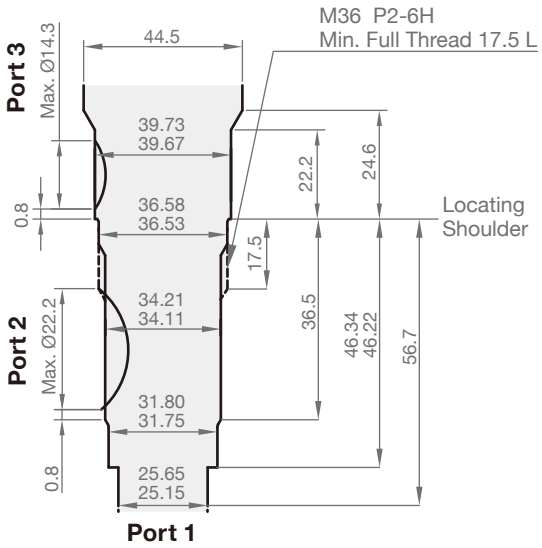
▸ T11A



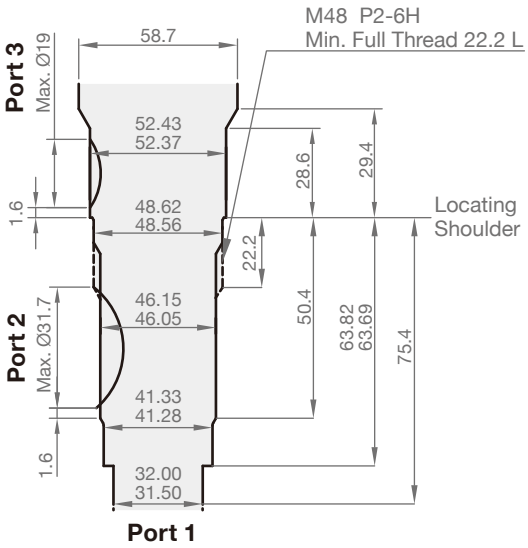
▸ T2A



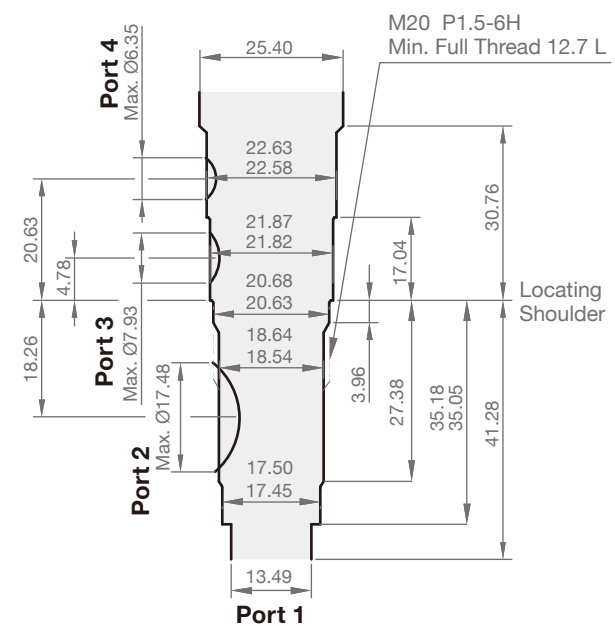
▸ T17A



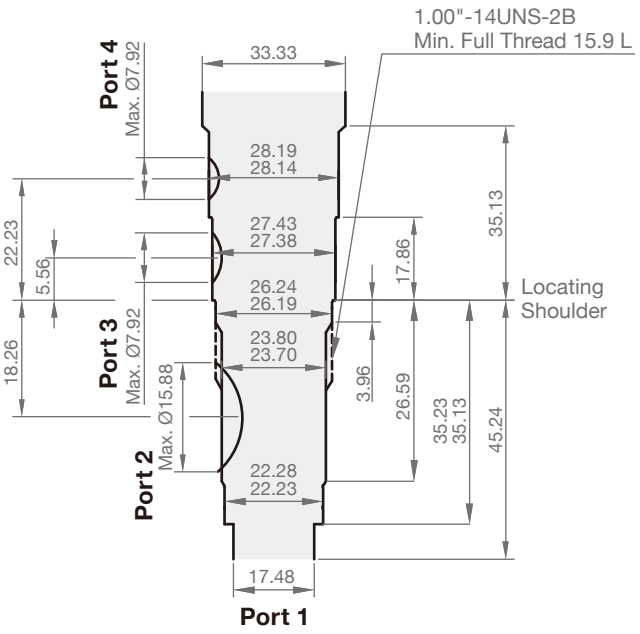
▸ T19A



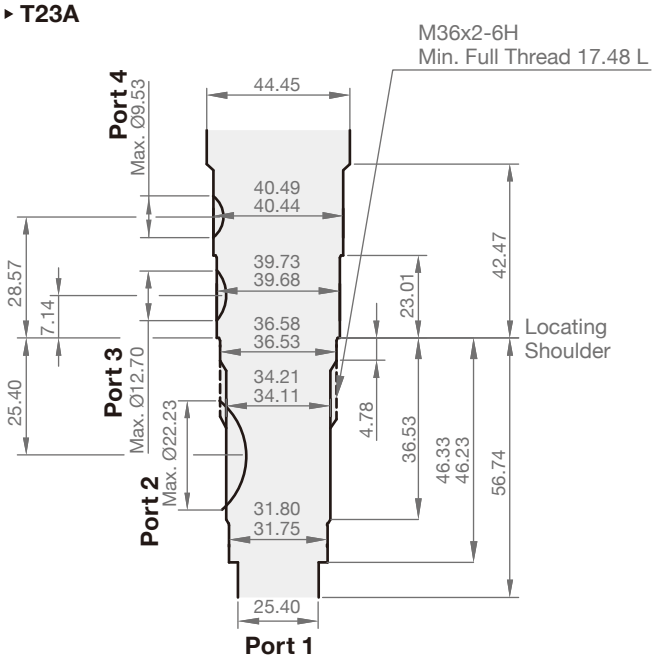
▸ T21A



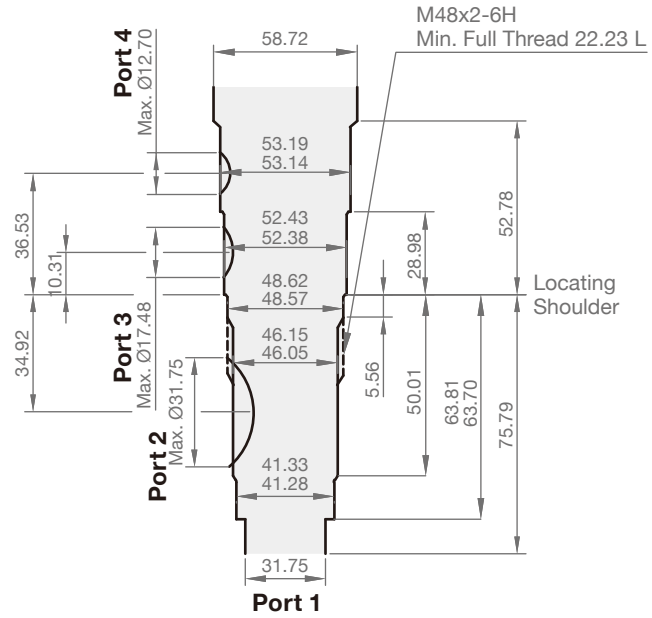
▸ T22A



▸ T23A



▸ T24A

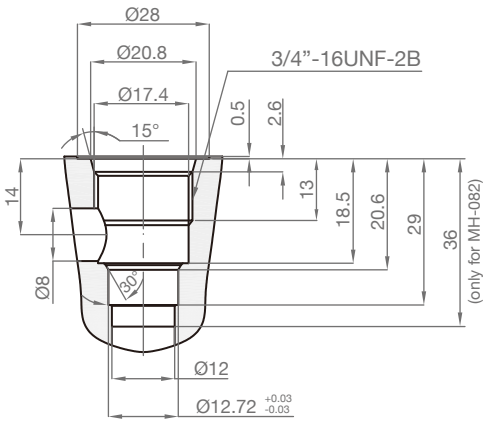


Cavities Tooling (SAE Cavity)

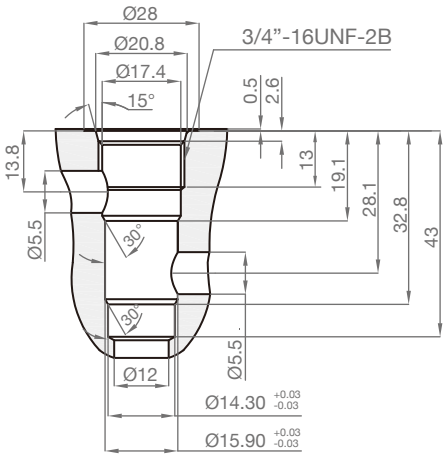
DIMENSION

(UNIT : mm)

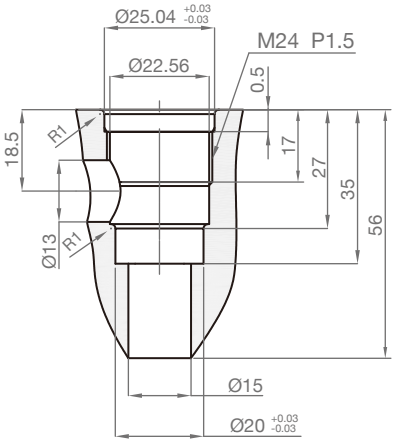
▸ T82



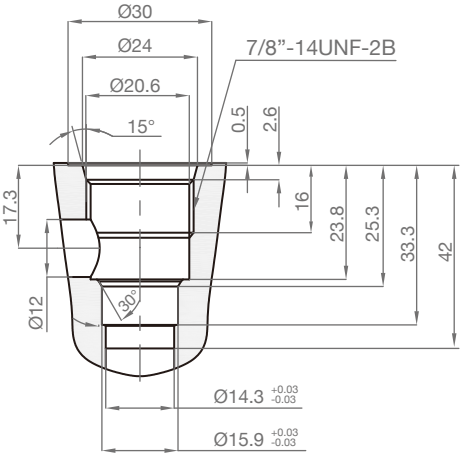
▸ T83



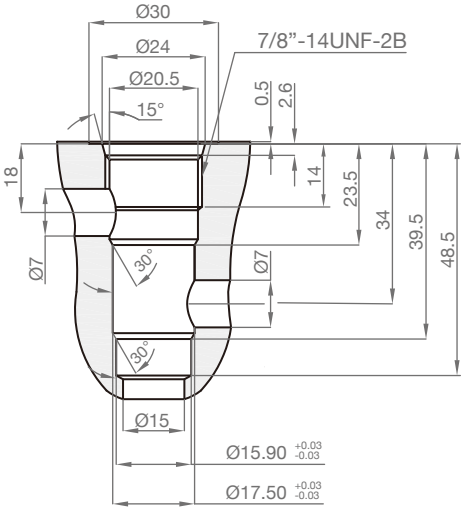
▸ T092



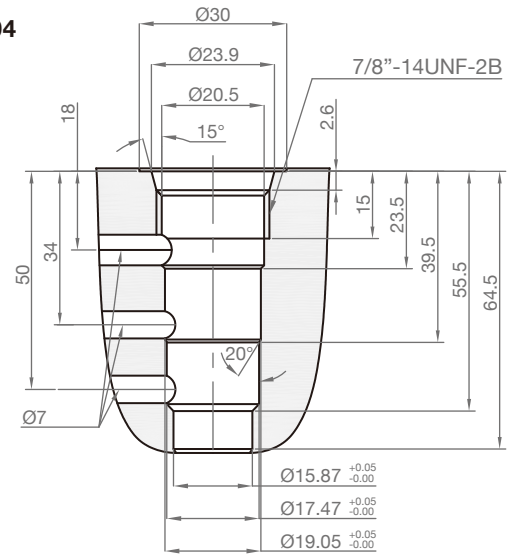
▸ T102



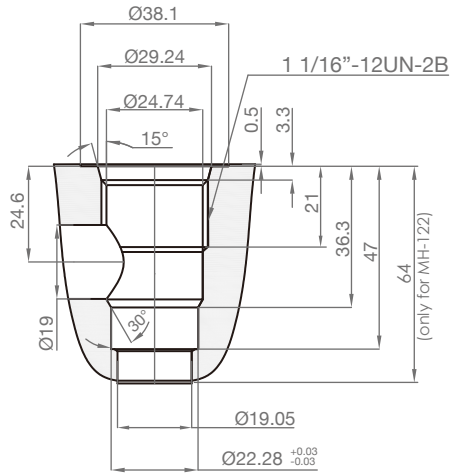
▸ T103



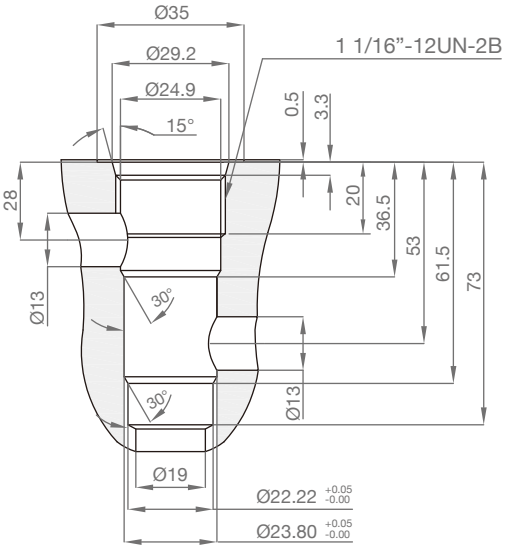
▸ T104



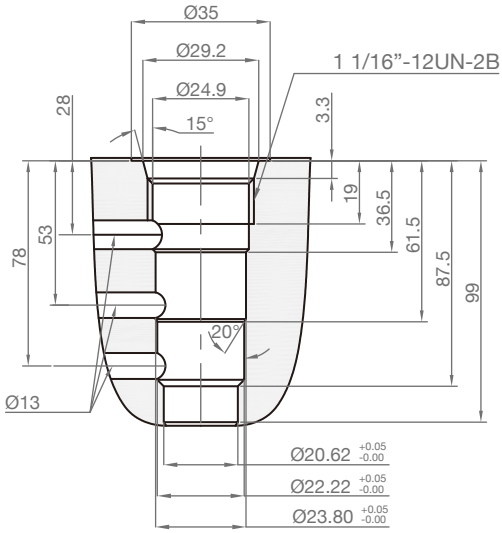
▸ T122



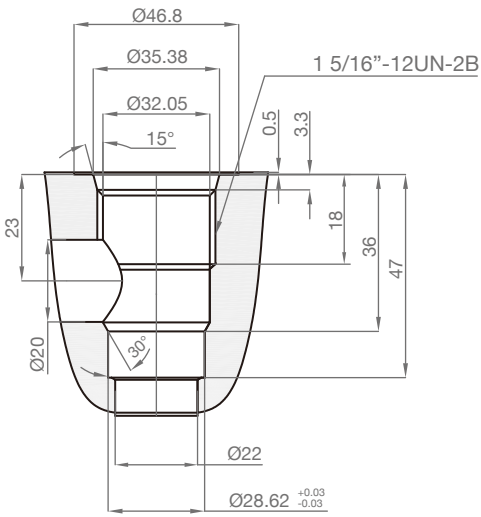
▸ T123



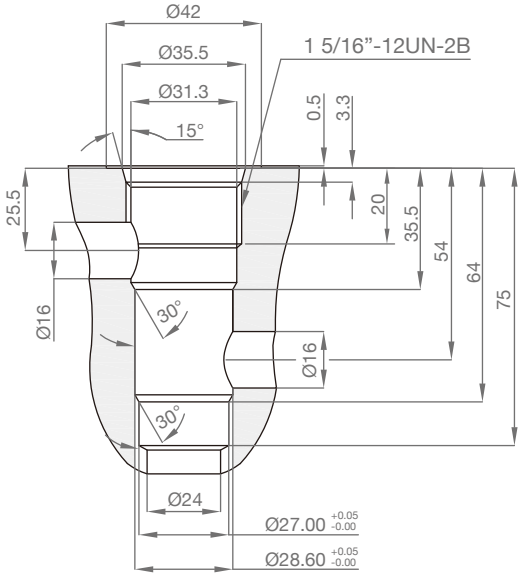
▸ T124



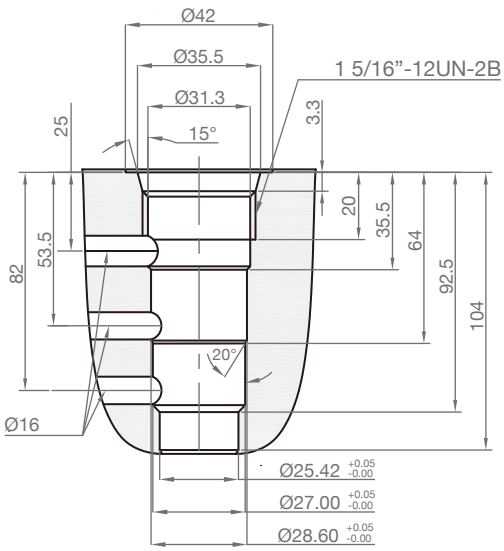
▸ T162



▸ T163



▸ T164



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HYDRAULIC TECHNOLOGY

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