

Section 4

Subplates

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Product Tips and Features

Subplates without Circuits

Subplates are designed to provide a means to connect a single solenoid valve to field piping either on the power unit or near the actuator.

1. Standard materials are Aluminum and Ductile Iron. Other materials including Mild Steel or Stainless Steel are optionally available.
2. Special Finishes including Black Oxide, Electroless Nickel Plating or Anodizing are optionally available.
3. UNC or Metric mounting bolt kits and any plugs that may be required are supplied as standard.
4. Clearance holes are located outside the solenoid valve interface limits wherever possible in order to facilitate valve assembly prior to mounting the subplate.
5. Internal galleries have been maximized in order to minimize pressure drops and fluid velocities.
6. Port spacing has been maximized and aligned simplifying the installation of piping and minimizing space requirements.
7. No variation in design layout for each Model regardless of Port Code.
8. All D05H and D05HE Subplates designed with dual tank ports on the solenoid interface in order to maximize valve performance.
9. "05T" Code provides dual tank ports without the pilot ports for D05H(E) designs for higher performance applications. See note on pages 4.03.03 and 4.03.04 for complete Part Number details.
10. "ST" Porting Style includes additional tank port on side in addition to bottom NPT tank port.
11. Servo Subplates are available. Please contact Factory for Part Numbers.
12. Subplates for Gasket Mount Reliefs, Pressure Reducers, Flow Controls, etc. are available. Please contact Factory for Part Numbers.

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Subplates without Circuits

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SPXX

Servo Interfaces. ISO 10372 & proprietary Consult Factory

S04

S06

57S

44S

PRV & Relief Interfaces ISO6264, ISO5781 & NFPA..... Consult Factory

08R

08P

10P

15R

06F

Oversized Interface Ports Consult Factory

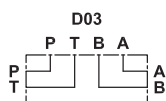
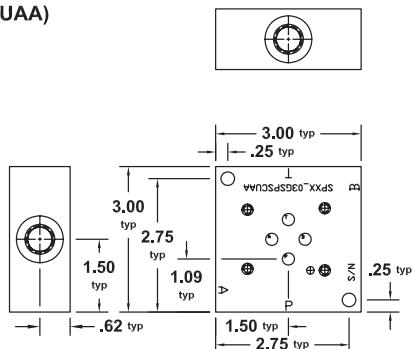
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D03 Subplate - Nominal 1/4" & 3/8"

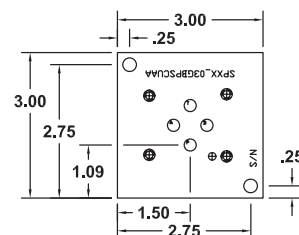
SPXX_03GSPSCUAA
(SPXX_03GSPSBUAA)



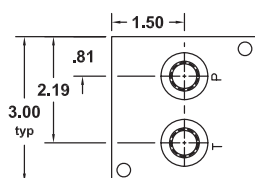
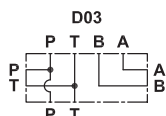
SP=1.25
SB/ST=1.50

UNC Mounting KIT includes:
2 -1/4"-20 x 1.75"SHCS
Metric Mounting KIT includes:
2 -M6-1.0 x 45mm SHCS

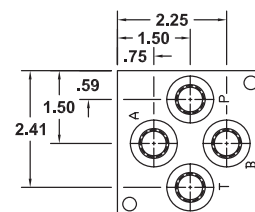
SPXX_03GBPSCUAA
(SPXX_03GBPSBUAA)



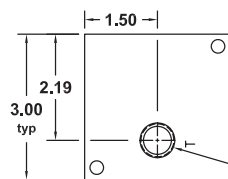
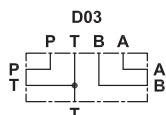
BOTTOM VIEW
SPXX_03GSBSCUAA
(SPXX_03GSBSBUAA)



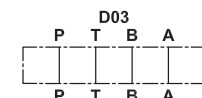
UNC Mounting KIT includes:
2 -1/4"-20 x 2.00"SHCS
2 -Plugs
Metric Mounting KIT includes:
2 -M6-1.0 x 50mm SHCS
2 -Plugs



BOTTOM VIEW
SPXX_03GSTSCUAA
(SPXX_03GSTSBUAA)



UNC Mounting KIT includes:
2 -1/4"-20 x 2.00"SHCS
Metric Mounting KIT includes:
2 -M6-1.0 x 50mm SHCS
3/8" NPTF Port for all *C Port Codes
or
1/4" NPTF Port for all *B Port Codes



UNC Mounting KIT includes:
2 -1/4"-20 x 1.75"SHCS
Metric Mounting KIT includes:
2 -M6-1.0 x 45mm SHCS

PART NUMBER SYSTEM

Aluminum D03 Side Ported Subplate with SAE 6 Ports Example: **SPXXA03GSPSCUAA**

TYPE	MATERIAL	VALVE PATTERN	PORTING STYLE	PORT CODE	MOUNTING THREADS & KIT		PILOT PORT OPTIONS
SPXX	Subplate						
A	Aluminum						
D	Ductile Iron						
03G	ISO 4401-03-02 NFPA T3.5.1-D03						
BP	Bottom Ported Only						
SB	Side Ported with Bottom P & T Ports						
SP	Side Ported only						
ST	Side Ported with 3/8" NPTF "T" Port on Bottom only *						
* Note for 1/4" Port Codes 1/4" NPTF "T" Port on Bottom Only							
U	UNC Std for SAE & NPT	D03 Valve	10-24 UNC x .63 dp				
M	Metric Std for BSP* & Metric	D03 Valve	M5 x 0.80 x .63 dp				
		Subplate	M6 x 1.00 SHCS				
1/4" CODE	TYPE	P, T, A and B					
SB	SAE	4					
NB	NPTF	1/4"					
BB	BSPP	1/4"					
TB	BSPT	1/4"					
MB	METRIC	M10					
3/8" CODE	TYPE	P, T, A and B					
SC	SAE	6					
NC	NPTF	3/8"					
BC	BSPP	3/8"					
TC	BSPT	3/8"					
MC	METRIC	M14					
AA	None						

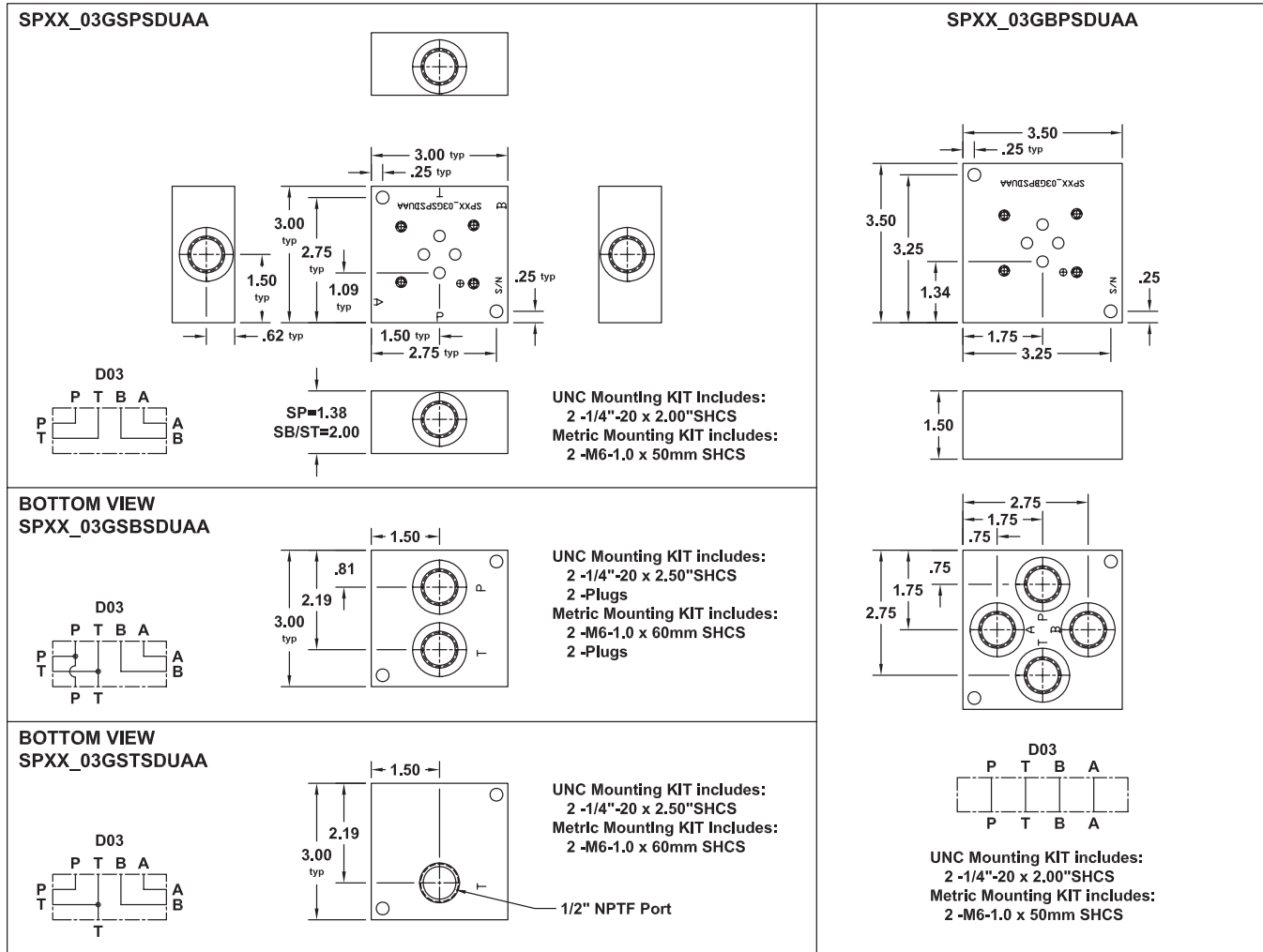
* Note for 1/4" Port Codes
1/4" NPTF "T" Port on Bottom Only

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D03 Subplate - Nominal 1/2"



PART NUMBER SYSTEM

Aluminum D03 Side Ported Subplate with SAE 8 Ports Example: **SPXXA03GSPSDUAA**

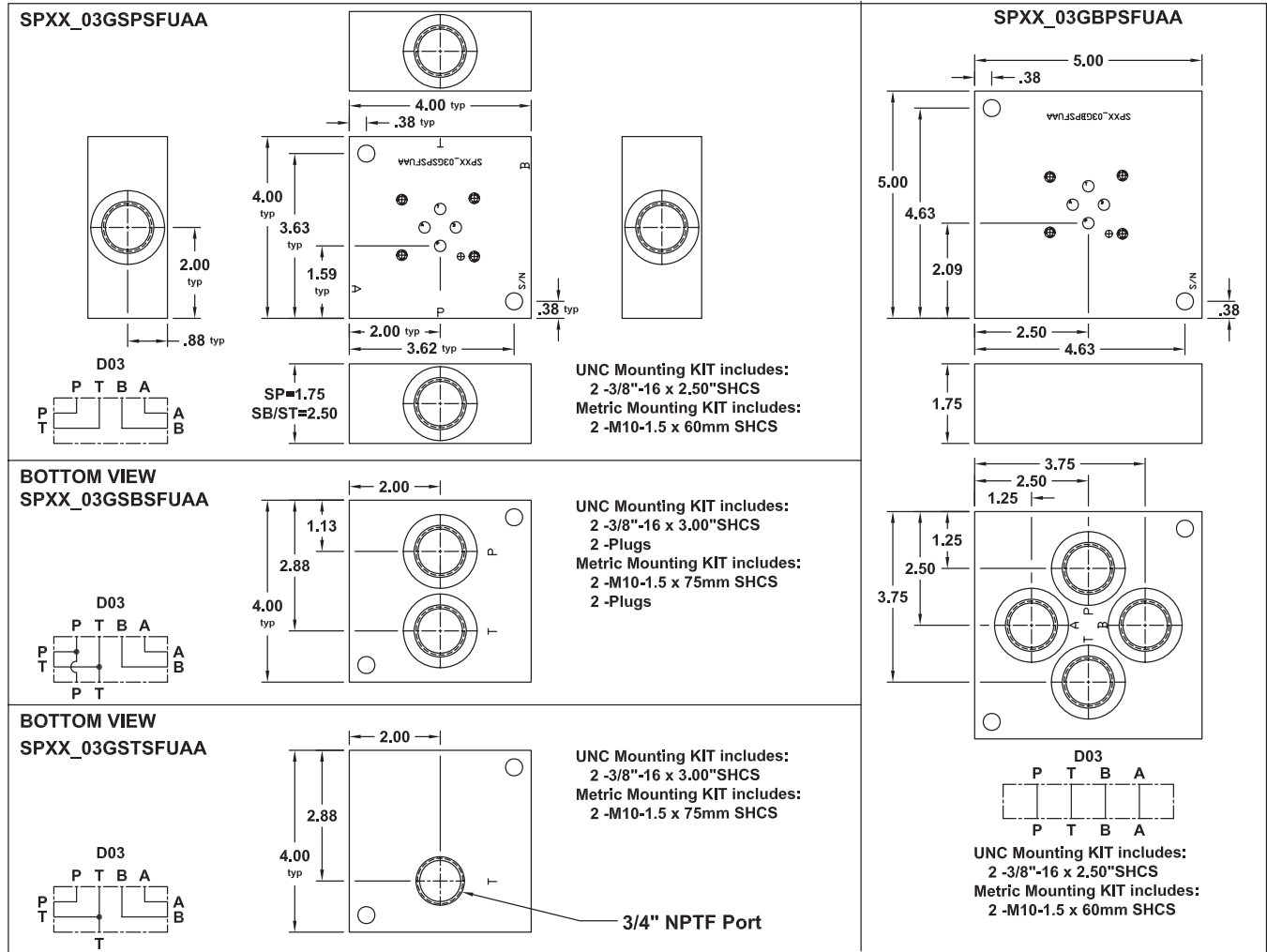
TYPE	MATERIAL	VALVE PATTERN	PORTING STYLE	PORT CODE	MOUNTING THREADS & KIT	PILOT PORT OPTIONS
SPXX	Subplate					
A	Aluminum					
D	Ductile Iron					
03G	ISO 4401-03-02 NFPA T3.5.1-D03					
BP	Bottom Ported Only					
SB	Side Ported with Bottom P & T Ports					
SP	Side Ported only					
ST	Side Ported with 1/2" NPTF "T" Port on Bottom only					
U	UNC Std for SAE & NPT	D03 Valve	10-24 UNC x .63 dp			
M	Metric Std for BSP* & Metric	D03 Valve	M5 x 0.80 x .63 dp			
		Subplate	1/4"-20 UNC SHCS			
		Subplate	M6 x 1.00 SHCS			
AA	None					
CODE	TYPE	P, T, A and B				
SD	SAE	8				
ND	NPTF	1/2"				
BD	BSPP	1/2"				
TD	BSPT	1/2"				
MD	METRIC	M18				

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D03 Subplate - Nominal 3/4"



PART NUMBER SYSTEM

Aluminum D03 Side Ported Subplate with SAE 12 Ports Example: **SPXXA03GSPSFUAA**

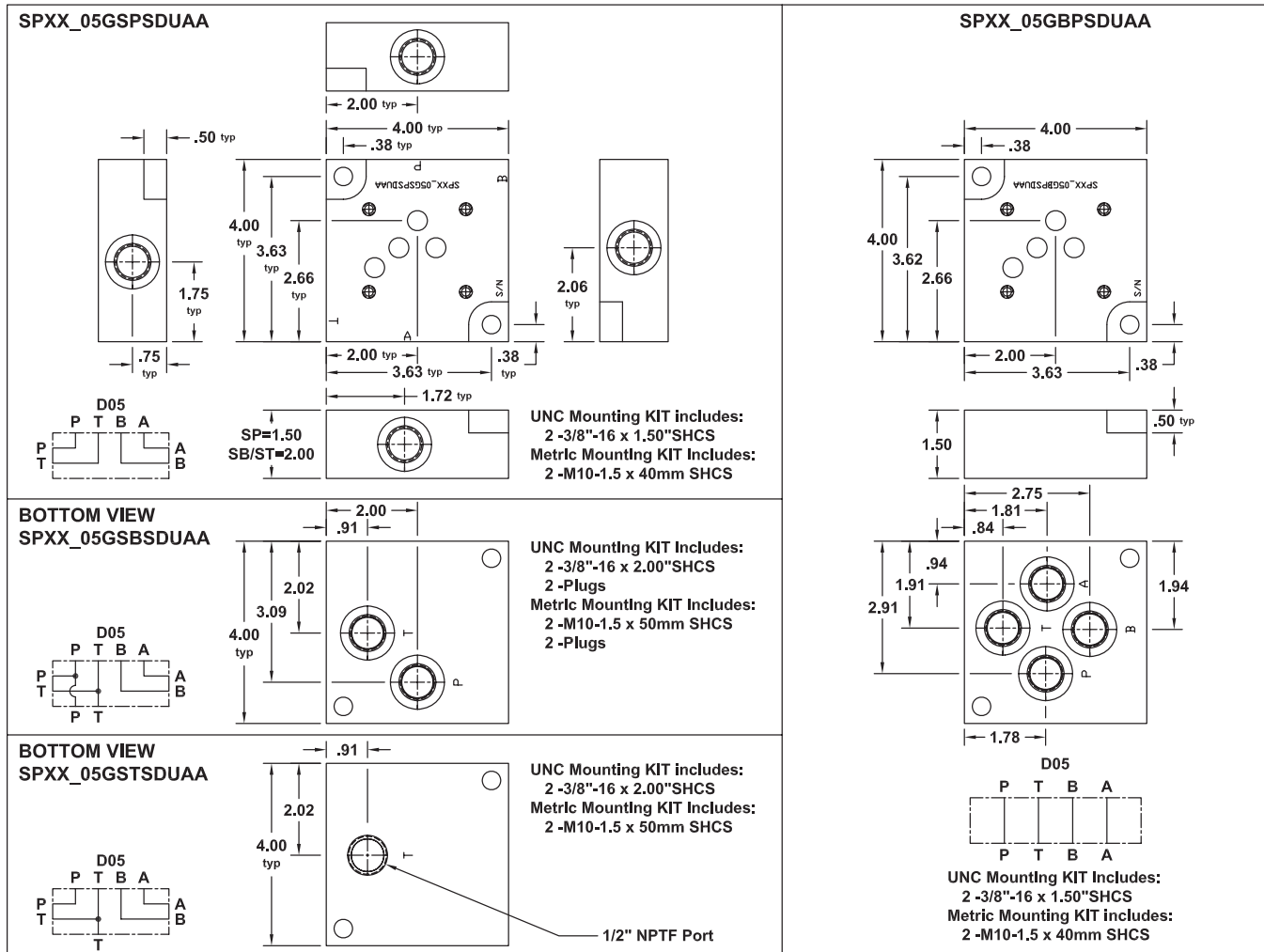
TYPE	MATERIAL	VALVE PATTERN	PORTING STYLE	PORT CODE	MOUNTING THREADS & KIT	PILOT PORT OPTIONS
SPXX	Subplate					
A	Aluminum					
D	Ductile Iron					
03G	ISO 4401-03-02 NFPA T3.5.1-D03					
		BP	Bottom Ported Only			
		SB	Side Ported with Bottom P & T Ports			
		SP	Side Ported only			
		ST	Side Ported with 3/4" NPTF "T" Port on Bottom only			

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D05 Subplate - Nominal 1/2"



PART NUMBER SYSTEM

Aluminum D05 Side Ported Subplate with SAE 8 Ports Example: **SPXXA05GSPSDUAA**

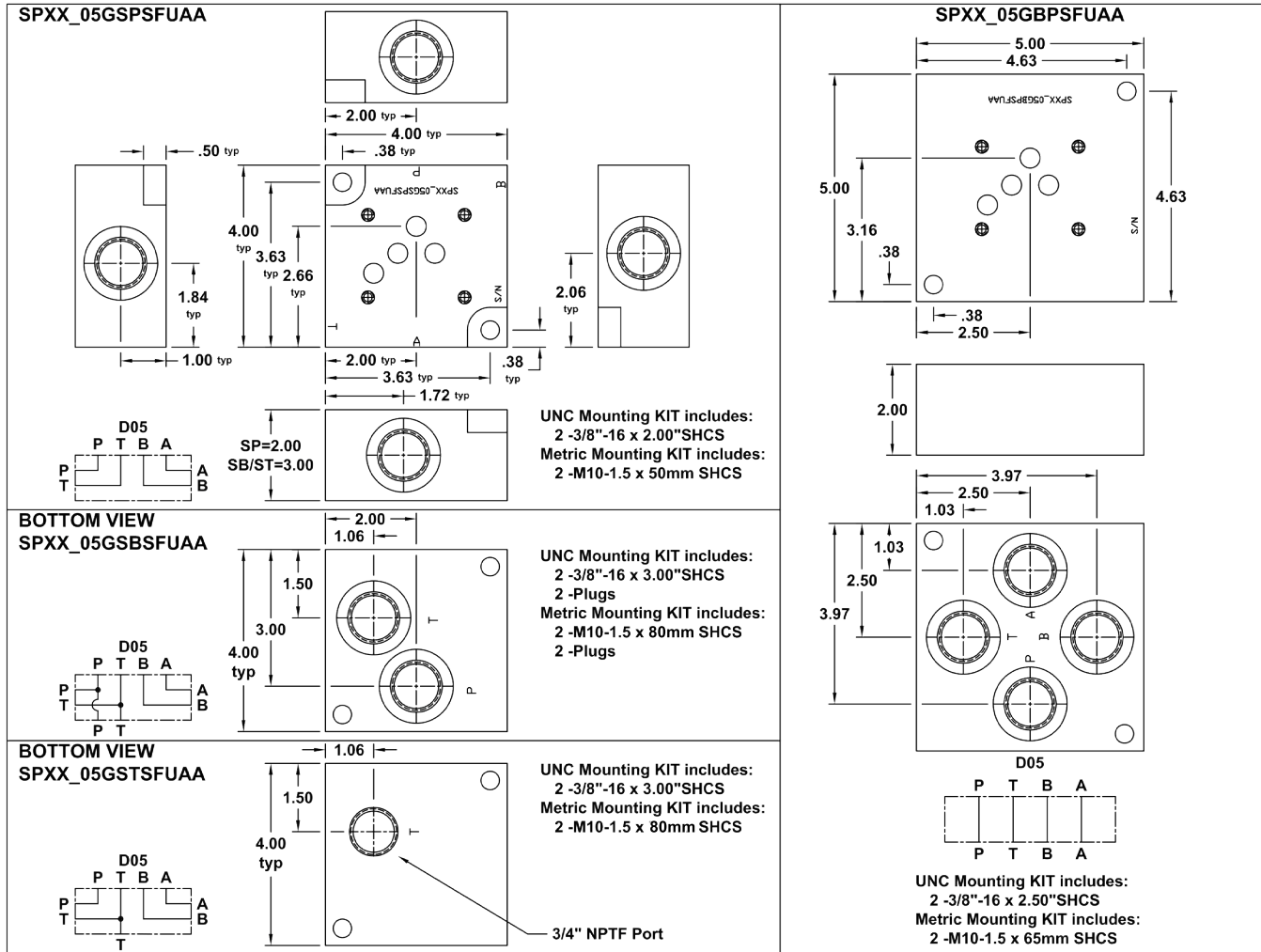
TYPE	MATERIAL	VALVE PATTERN	PORTING STYLE	PORT CODE	MOUNTING THREADS & KIT	PILOT PORT OPTIONS
SPXX	Subplate					
A	Aluminum					
D	Ductile Iron					
05G	ISO 4401-05-04 NFPA T3.5.1-D05					
BP	Bottom Ported Only					
SB	Side Ported with Bottom P & T Ports					
SP	Side Ported only					
ST	Side Ported with 1/2" NPTF "T" Port on Bottom only					
U	UNC Std for SAE & NPT	D05 Valve	1/4"-20 UNC x .75 dp			
		Subplate	3/8"-16 SHCS			
M	Metric Std for BSP* & Metric	D05 Valve	M6 x 1.00 x .75 dp			
		Subplate	M10 x 1.50 SHCS			
AA	None					
CODE	TYPE	P, T, A and B				
SD	SAE	8				
ND	NPTF	1/2"				
BD	BSPP	1/2"				
TD	BSPT	1/2"				
MD	METRIC	M18				

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D05 Subplate - Nominal 3/4"



PART NUMBER SYSTEM

Aluminum D05 Side Ported Subplate with SAE 8 Ports Example: **SPXXA05GSPSDUAA**

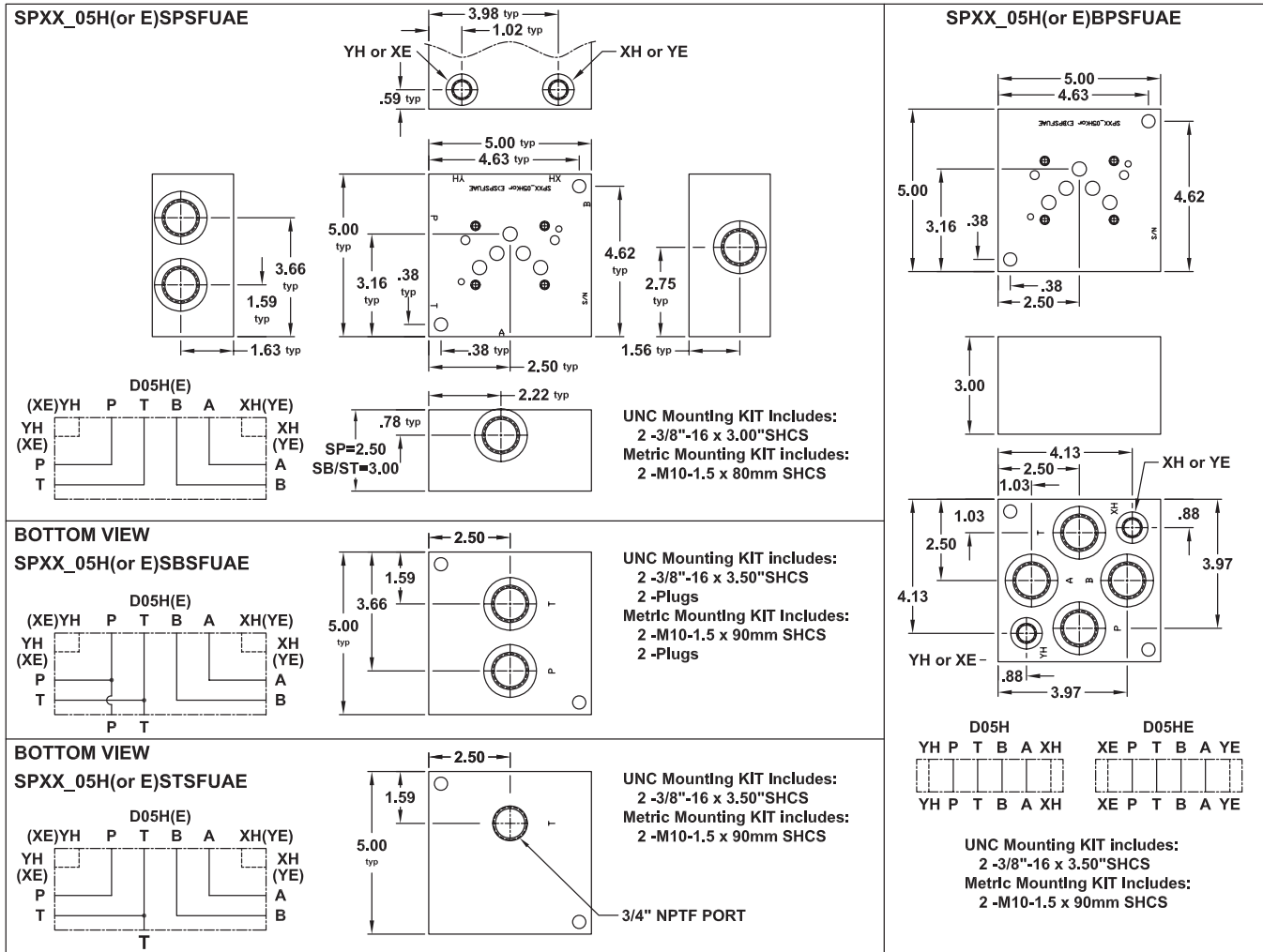
TYPE	MATERIAL	VALVE PATTERN	PORTING STYLE	PORT CODE	MOUNTING THREADS & KIT			PILOT PORT OPTIONS
SPXX	Subplate							
A	Aluminum							
D	Ductile Iron							
05G	ISO 4401-05-04 NFPA T3.5.1-D05							
BP	Bottom Ported Only							
SB	Side Ported with Bottom P & T Ports							
SP	Side Ported only							
ST	Side Ported with 1/2" NPTF "T" Port on Bottom only							
U	UNC Std for SAE & NPT	D05 Valve	1/4"-20 UNC x .75 dp					
	Subplate		3/8"-16 SHCS					
M	Metric Std for BSP* & Metric	D05 Valve	M6 x 1.00 x .75 dp					
	Subplate		M10 x 1.50 SHCS					
AA	None							
CODE	TYPE	P, T, A and B						
SF	SAE	12						
NF	NPTF	3/4"						
BF	BSPP	3/4"						
TF	BSPT	3/4"						
MF	METRIC	M27						

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D05H(E) Subplate - Nominal 3/4"



PART NUMBER SYSTEM

Aluminum D05H Side Ported Subplate with SAE 12 Ports & Pilot Ports Example: **SPXXA05HSPSFUAE**

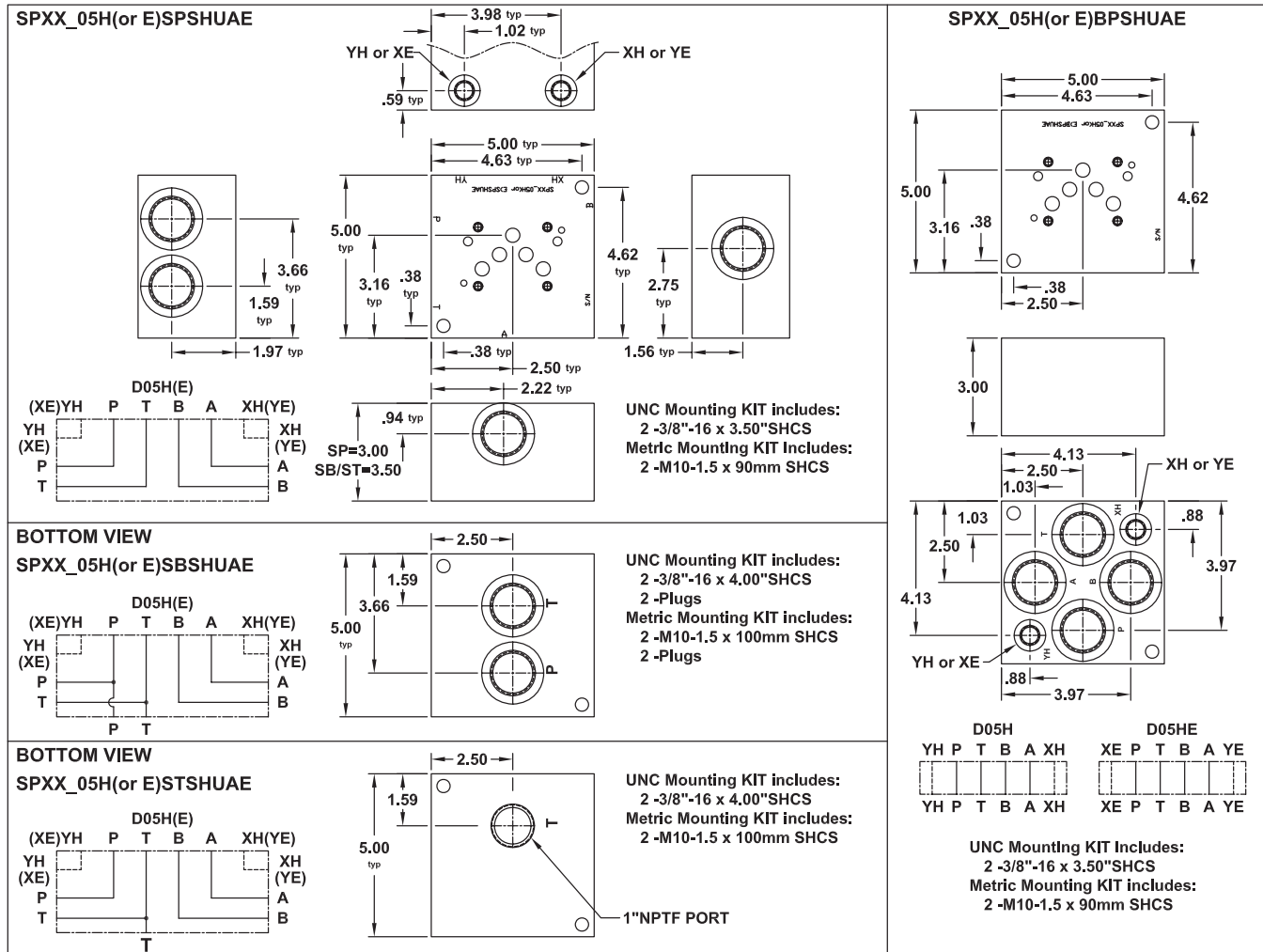
TYPE	MATERIAL	VALVE PATTERN	PORTING STYLE	PORT CODE	MOUNTING THREADS & KIT	PILOT PORT OPTIONS
SPXX Subplate	A Aluminum D Ductile Iron	BP Bottom Ported Only SB Side Ported with Bottom P & T Ports SP Side Ported only ST Side Ported with 3/4" NPTF "T" Port on Bottom only			U UNC Std for SAE & NPT D05 Valve 1/4"-20 UNC x .75 dp Subplate 3/8"-16 SHCS M Metric Std for BSP* & Metric D05 Valve M6 x 1.00 x .75 dp Subplate M10 x 1.50 SHCS	AA* See Note Below AE X & Y Ports
05H (USA Standard) 05E NFPA T3.5.1-D05 Alt B ISO 4401-05-05 (EURO) NFPA T3.5.1-D05 Alt A				CODE TYPE P, T, A and B X & Y SF SAE 12 6 NF NPTF 3/4" 1/4" BF BSPP 3/4" 1/4" TF BSPT 3/4" 1/4" MF METRIC M27 M10	NOTE: * = NON-STANDARD OPTION Use "05T" for Valve Pattern Code when Subplate with no Pilot Ports is required Example: SPXXA05TSPSFUAA	

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D05H(E) Subplate - Nominal 1"



PART NUMBER SYSTEM

Aluminum D05H Side Ported Subplate with SAE 16 Ports & Pilot Ports Example: **SPXXA05HSPSHUAE**

TYPE	MATERIAL	VALVE PATTERN	PORTING STYLE	PORT CODE	MOUNTING THREADS & KIT	PILOT PORT OPTIONS
SPXX	Subplate					
A	Aluminum					
D	Ductile Iron					
05H	(USA Standard)					
	NFPA T3.5.1-D05 Alt B					
05E	ISO 4401-05-05 (EURO)					
	NFPA T3.5.1-D05 Alt A					
BP	Bottom Ported Only					
SB	Side Ported with Bottom P & T Ports					
SP	Side Ported only					
ST	Side Ported with 1" NPTF "T" Port on Bottom only					
U	UNC Std for SAE & NPT				D05 Valve 1/4"-20 UNC x .75 dp Subplate 3/8"-16 SHCS	
M	Metric Std for BSP* & Metric				D05 Valve M6 x 1.00 x .75 dp Subplate M10 x 1.50 SHCS	
CODE	TYPE	P, T, A and B	X & Y			
SH	SAE	16	6			
NH	NPTF	1"	1/4"			
BH	BSPP	1"	1/4"			
TH	BSPT	1"	1/4"			
MH	METRIC	M33	M10			
AA*	See Note Below					
AE	X & Y Ports					

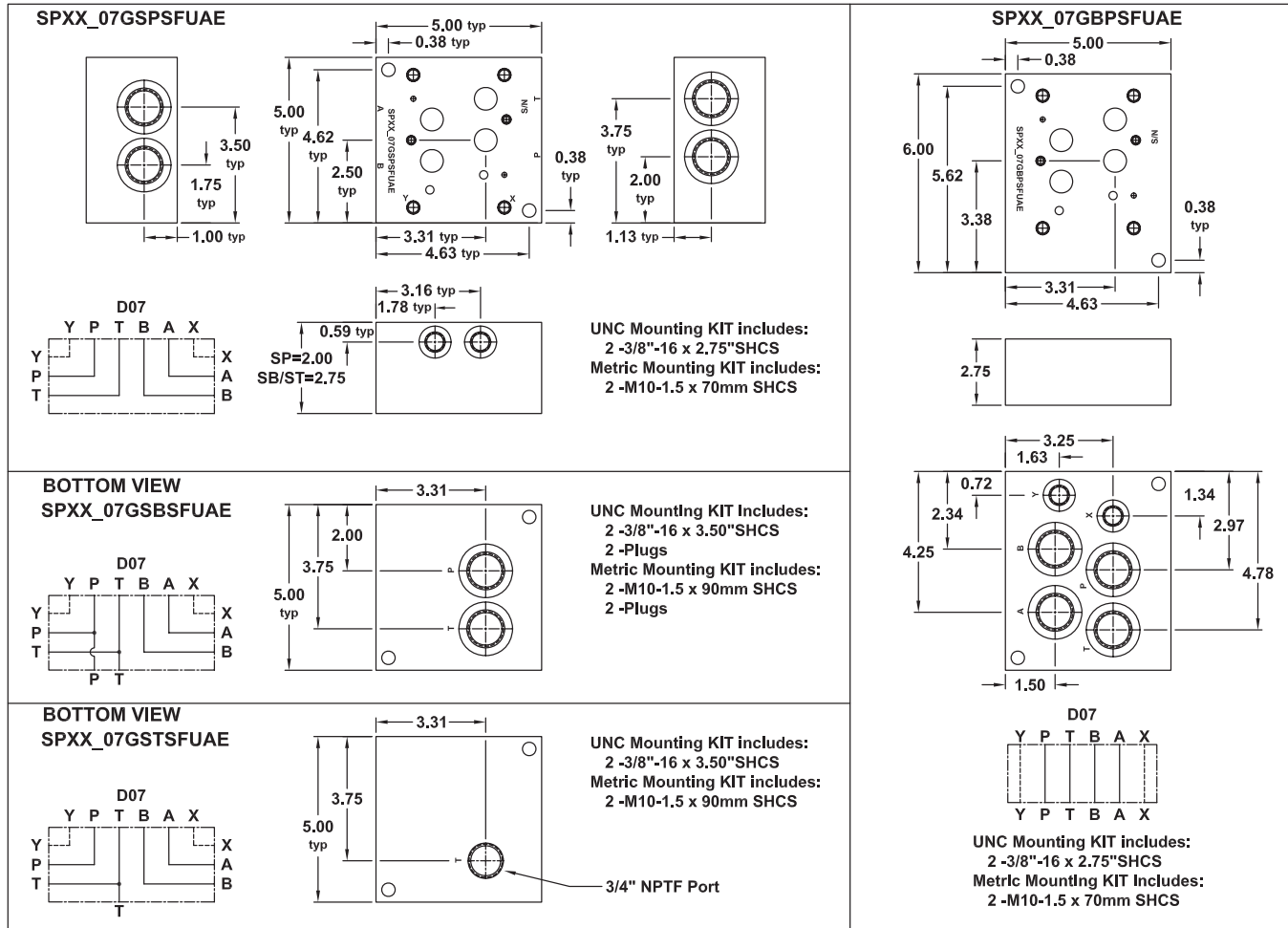
NOTE: * = NON-STANDARD OPTION
 Use "05T" for Valve Pattern Code when Subplate with no Pilot Ports is required
 Example: SPXXA05TSPSHUAA

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D07 Subplate - Nominal 3/4"



PART NUMBER SYSTEM

Aluminum D07 Side Ported Subplate with SAE 12 Ports & Pilot Ports Example: **SPXXA07GSPSFUAE**

TYPE	MATERIAL	VALVE PATTERN	PORTING STYLE	PORT CODE	MOUNTING THREADS & KIT	PILOT PORT OPTIONS
SPXX Subplate	A Aluminum D Ductile Iron	BP Bottom Ported Only SB Side Ported with Bottom P & T Ports SP Side Ported only ST Side Ported with 3/4" NPTF "T" Port on Bottom only			U UNC Std for SAE & NPT M Metric Std for BSP* & Metric	AA* None AE X & Y Ports
07G ISO 4401-07-06 NFPA T3.5.1-D07						

U	UNC Std for SAE & NPT	D07 Valve	3/8"-16 UNC x 1.00" dp 1/4"-20 UNC x 0.75" dp
		Subplate	3/8"-16 UNC SHCS
M	Metric Std for BSP* & Metric	D07 Valve	M10 x 1.50 x 1.00" dp M6 x 1.00 x .75" dp
		Subplate	M10 x 1.5 SHCS

CODE	TYPE	P, T, A and B	X & Y
SF	SAE	12	6
NF	NPTF	3/4"	1/4"
BF	BSPP	3/4"	1/4"
TF	BSPT	3/4"	1/4"
MF	METRIC	M27	M10

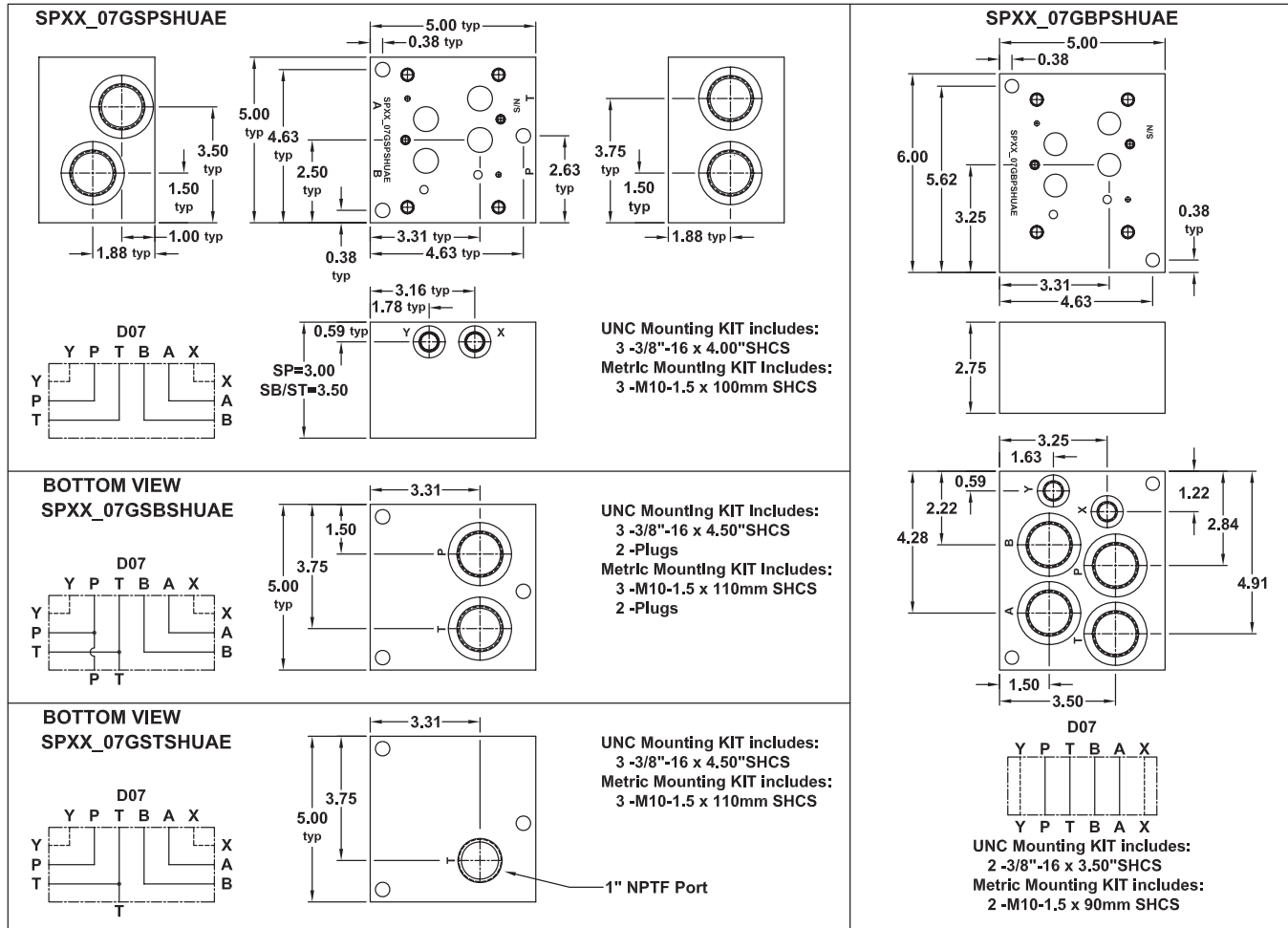
* = NON-STANDARD OPTION

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D07 Subplate - Nominal 1"



PART NUMBER SYSTEM

Aluminum D07 Side Ported Subplate with SAE 16 Ports & Pilot Ports Example: **SPXXA07GSPSHUAE**

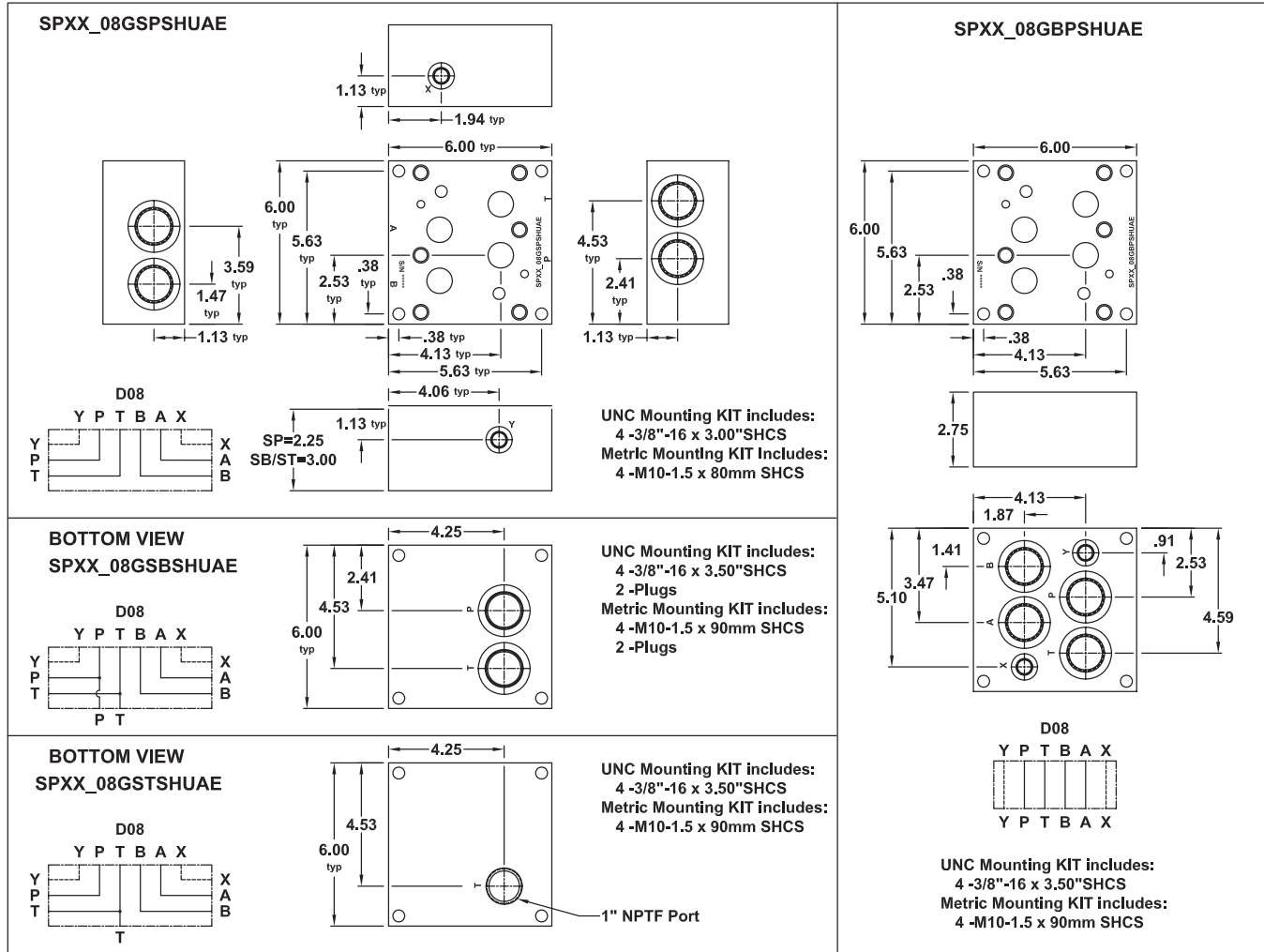
TYPE	MATERIAL	VALVE PATTERN	PORTING STYLE	PORT CODE	MOUNTING THREADS & KIT	PILOT PORT OPTIONS
SPXX	Subplate					
A	Aluminum					
D	Ductile Iron					
07G	ISO 4401-07-06 NFPA T3.5.1-D07					
		BP	Bottom Ported Only			
		SB	Side Ported with Bottom P & T Ports			
		SP	Side Ported only			
		ST	Side Ported with 1" NPTF "T" Port on Bottom only			
				</		

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D08 Subplate - Nominal 1"



PART NUMBER SYSTEM

Aluminum D08 Side Ported Subplate with SAE 16 Ports & Pilot Ports Example: **SPXXA08GSPSHUAE**

TYPE	MATERIAL	VALVE PATTERN	PORTING STYLE	PORT CODE	MOUNTING THREADS & KIT	PILOT PORT OPTIONS
SPXX	Subplate					
A	Aluminum					
D	Ductile Iron					
08G	ISO 4401-08-07 NFPA T3.5.1-D08					
BP	Bottom Ported Only					
SB	Side Ported with Bottom P & T Ports					
SP	Side Ported only					
ST	Side Ported with 1" NPTF "T" Port on Bottom only					
U	UNC Std for SAE & NPT	D08 Valve	1/2"-13 UNC x 1.25" dp			
M	Metric Std for BSP* & Metric	D08 Valve	M12 x 1.75 x 1.25" dp			
		Subplate	M10 x 1.50 SHCS			
CODE	TYPE	P, T, A and B	X & Y			
SH	SAE	16	6			
NH	NPTF	1"	3/8"			
BH	BSPP	1"	3/8"			
TH	BSPT	1"	3/8"			
MH	METRIC	M33	M14			
AA*	None					
AE	X & Y Ports					

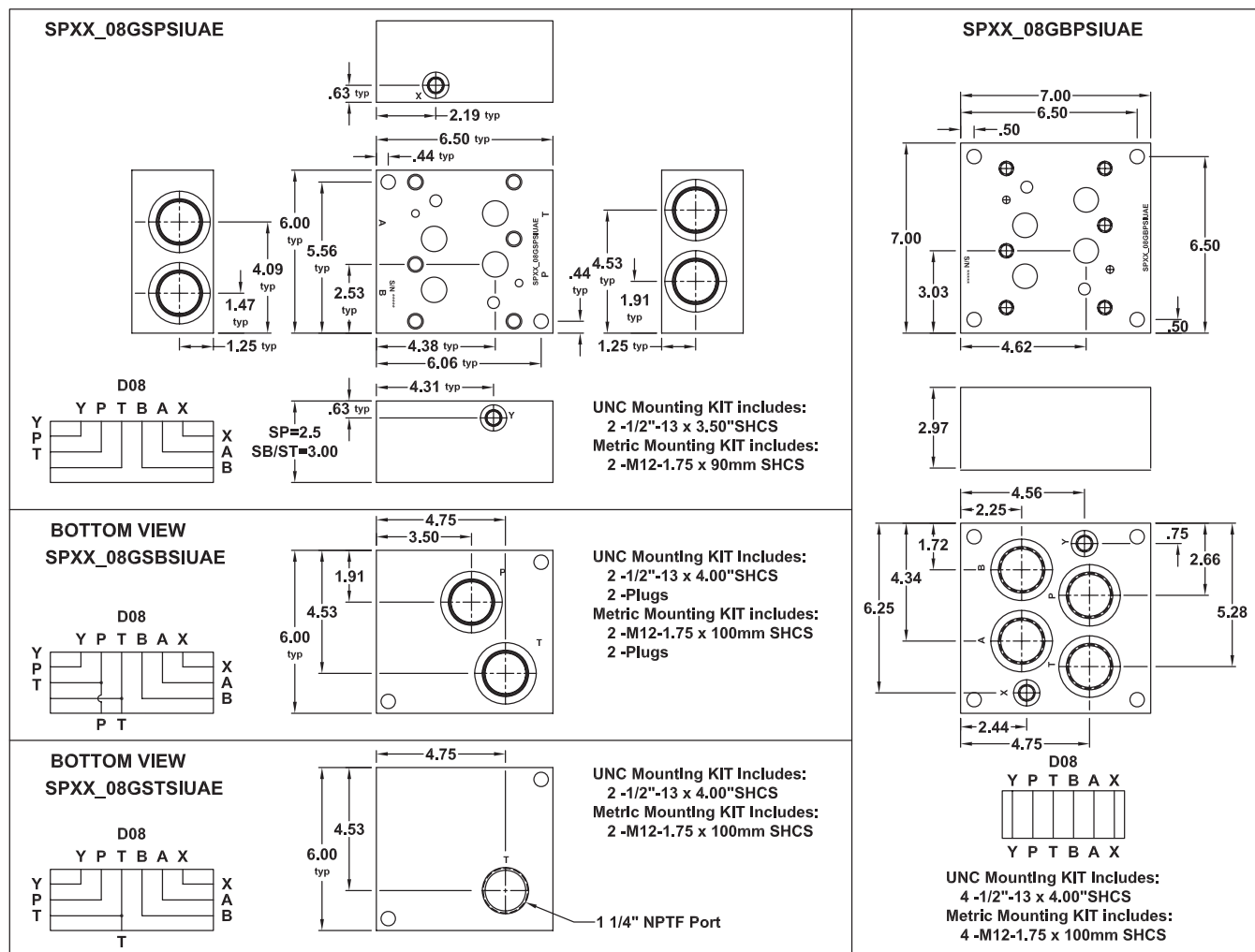
* = NON-STANDARD OPTION

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D08 Subplate - Nominal 1-1/4"



PART NUMBER SYSTEM

Aluminum D08 Side Ported Sub-base with SAE 20 Ports & Pilot Ports Example: **SPXXA08GSPSIUAE**

TYPE	MATERIAL	VALVE PATTERN	PORTING STYLE	PORT CODE	MOUNTING THREADS & KIT	PILOT PORT OPTIONS
SPXX Subplate	A Aluminum D Ductile Iron	BP Bottom Ported Only SB Side Ported with Bottom P & T Ports SP Side Ported only ST Side Ported with 1-1/4" NPTF "T" Port on Bottom only			U UNC Std for SAE & NPT D08 Valve 1/2"-13 UNC x 1.25" dp Subplate 1/2"-13 UNC SHCS M Metric Std for BSP* & Metric D08 Valve M12 x 1.75 x 1.25" dp Subplate M12 x 1.75 SHCS	AA* None AE X & Y Ports
08G ISO 4401-08-07 NFPA T3.5.1-D08				CODE TYPE P, T, A and B X & Y SI SAE 20 6 NI NPTF 1 1/4" 3/8" BI BSPP 1 1/4" 3/8" TI BSPT 1 1/4" 3/8" MI METRIC M42 M14		

* = NON-STANDARD OPTION

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