

UNI-D


Certificate

Certificate of registration


 THIS IS TO CERTIFY THAT THE
 QUALITY MANAGEMENT SYSTEM OF
UNI-D CORPORATION
 (The Factory Name of DI-HEN CORPORATION)
 No.30-6, Lane 300, San-Min Road, Lu-Chow City, Taipei Hsien, Taiwan, R.O.C.
 No.406, Shen Jong St., Shyh Lin Dist., Taipei, Taiwan, R.O.C.
 Has been assessed and registered as complying with the requirements of the International Standard
 shown above for the following Goods and Services. Further clarifications regarding the scope of this
 certificate and the applicability of ISO 9001:2000 requirements may be obtained by consulting the
 organization.
**Design and Manufacture of Solenoid
 Valve 1/8"- 4" and Motor Valve1/2"- 6"**

Tomy Wills
 Managing Director
 INC. Pty Ltd, A17/1-171 BOWEN
 Sydney, Australia

Registration Number: QAC/9886/0218
 Registration Date: 16-May-01
 Valid for: 3 Years
 Page 1 of 1

ISO 9001

ITS Intertek Testing Services
ETL SEMKO

VERIFICATION
of conformity with European Directive(s)
No. CE-02018/00

Type of equipment: Solenoid Valves
 Document holder: Uni-D Corporation
 No. 406, Shen Jong St., Shyh Lin Dist., Taipei, Taiwan R.O.C.
 Manufacturer: Di-Hen Corporation
 No. 30-6, Lane 300, San-Min Road, Lu-Chow City Taipei Hsien, Taiwan
 R.O.C.
 Type designation: UPS-15, UPS-20, UPS-25, US-15, US-20, US-25, US-35, US-40, US-50,
 US-55, US-200, US-250, US-255, US-300, US-400, US-500, US-550, US-30
 401A, US-25011A, US-30011A, US-40011A, and US-50011A
 Technical data: 230Vac, 50/60Hz, Class, Type 1B/JF 20

A sample of the equipment has been tested for CE-marking according to the EC Directive(s),
 - the Low Voltage Directive, "702/EEC, 93/68/EEC"
 - the EMC Directive, 89/336/EEC
 Standards used for showing compliance with the essential requirements of the Directive:
 EN 60730-1:2000 and EN 60730-2:1995 ETS-42032 Issued by: ITS-Taiwan Date: Apr. 12, 2002
 -A1: 1997-A2: 1997 ETS-42032 Issued by: ITS-Taiwan Date: Apr. 12, 2002
 EN 61000-3-2: 1995-A1: 1998 ETS-42037 ITS-Taiwan Mar. 19, 2002
 -A14: 2002
 EN 61000-3-3: 1995 ETS-42037 ITS-Taiwan Mar. 19, 2002
 EN 61261-1: 1997-A1: 1998 ETS-42037 ITS-Taiwan Mar. 19, 2002
 EN 50111: 1995-A1: 1997-A2: 1998 ETS-42037 ITS-Taiwan Mar. 19, 2002
 EN 61000-4-2: 1995 ETS-42037 ITS-Taiwan Mar. 19, 2002
 EN 61000-4-3: 1996-A1: 1998 ETS-42037 ITS-Taiwan Mar. 19, 2002
 EN 61000-4-4: 1995 ETS-42037 ITS-Taiwan Mar. 19, 2002
 EN 61000-4-5: 1995 ETS-42037 ITS-Taiwan Mar. 19, 2002
 EN 61000-4-6: 1996 ETS-42037 ITS-Taiwan Mar. 19, 2002
 EN 61000-4-8: 1996 ETS-42037 ITS-Taiwan Mar. 19, 2002
 EN 61000-4-11: 1994 ETS-42037 ITS-Taiwan Mar. 19, 2002

The referred test reports show that the product fulfills the requirements in the European
 Directives for CE-marking. On this basis, together with the manufacturer's own documented
 production control, the manufacturer (or his European authorized representative) can in his
 EC Declaration of Conformity verify compliance with the European Directives.

Taipei
 Apr. 12, 2002

Intertek Testing Services Ltd.


CE

CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1341939 Master Contract: 216806
 Project: 1341939 Date Issued: December 31, 2002
 Issued to: Uni-D Corporation
 No. 406, Shen Jong St.,
 Shyh Lin Dist.,
 Taipei, Taiwan

The products listed below are eligible to bear the CSA Mark shown,
 with adjacent indicator "C" and "US".
 Issued by: Sebastian Georgi, P. Eng.
 Authorized by: Fred Mink
 Director, For East Operation

PRODUCTS
 CLASS 1221 B1 - VALVES
 CLASS 1221 B1 - VALVES
 General purpose valves, solenoid operated, suitable for 80°C ambient temperature, fluid 70°C, Rated 120 V, 60
 Hz as follows:
 PART A: US-100716, US-110716, US-200716, US-250716, US-300716, US-400716, US-
 500716, rated 9.8 W, 140 PSI.
 PART B: UPS-15, UPS-20, UPS-25, rated 9.8 W, 140 PSI.
 PART C: US-15, US-20, US-25, US-35, US-40, US-50, rated 8.7 W, 220 PSI.
 PART D: US-150, US-200, US-250, US-300, US-400, US-500, rated 8.7 W, 220 PSI.
 PART E: US-10, US-15, US-20, US-25, US-35, US-40, US-50, rated 10.5 W, 100 PSI.
 PART F: US-600716, US-800716, rated 6.5 W, 100 PSI.
 PART G: US-6, US-10, US-15, US-20, US-25, US-35, US-40, US-50, US-60, US-80, US-100, US-150, US-200, US-250, US-300, US-400, US-500, US-600, US-800, US-1000, rated 10.5 W, 100 PSI.
 PART H: US-6, US-10, US-15, US-20, US-25, US-35, US-40, US-50, US-60, US-80, US-100, US-150, US-200, US-250, US-300, US-400, US-500, US-600, US-800, US-1000, rated 10.5 W, 100 PSI.

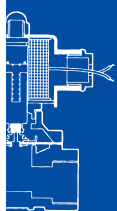
APPLICABLE REQUIREMENTS
 C22.2 No. 178-1982 - Electrically Operated Valves
 UL Standard No. 429 - Electrically Operated Valves

The "C" and "US" indicate approval to the CSA Mark register that the product has been evaluated in the applicable (UL) and (CSA) standards, for use in
 the U.S. and Canada. This indicates product eligible to bear the 1987, 1985, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

CSA

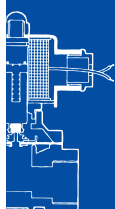


UL 429 ISO 9001
Serial No : 216806



Products List

Model	Pipe Size	Material	Operating Pressure kgf / cm ²	Fluid Temp °C	Fluid						Page
					Steam	Water	Air	Oil	Gas	Vacuum	
UD-6~8	1/8" ~ 1/4"	Brass	0-7	-5°C ~ 80°C		● ● ●	● ● ●	● ●	● ●	● ●	5
UG-6~8											
UD-10	3/8"	Brass	0-10	-5°C ~ 80°C		● ● ●	● ● ●	● ●	● ●	● ●	5
UD-15	1/2"	Brass	0-5	-5°C ~ 80°C		● ● ●	● ● ●	● ●	● ●	● ●	5
SUS-6	1/8" ~ 1/4"	#316	0-7	-5°C ~ 185°C	● ● ●	● ● ●	● ● ●	● ●			6
SUS-8											
SUS-10	3/8"	#316	0-10	-5°C ~ 185°C	● ● ●	● ● ●	● ● ●	● ●			6
UPS	1/2" ~ 1"	Brass	0.5-10	-5°C ~ 185°C	● ● ●	● ● ●	● ● ●	● ●			9
SUS#316	1/2" ~ 2"	#316	0.5-10	-5°C ~ 185°C	● ● ●	● ● ●	● ● ●	● ●			10
US	1/2" ~ 2"	Bronze	0.5-15	-5°C ~ 185°C	● ● ●	● ● ●	● ● ●	● ●			11
USF (Conn.)	1/2" ~ 2"	Bronze	0.5-15	-5°C ~ 185°C	● ● ●	● ● ●	● ●	● ●			11
UW	3/8" ~ 1"	Brass	0-7(Air)	-5°C ~ 80°C		● ● ●	● ● ●	● ●			7
UW-1	1 1/4" ~ 2"	Bronze	0-5(Liquid)								
UWF (Conn.)	3/8" ~ 2"	Brass	0-7(Air)	-5°C ~ 80°C		● ● ●	● ● ●	● ●			15
		Bronze	0-5(Liquid)								
SUW	1/2" ~ 1"	#316	0-7(Air)	-5°C ~ 80°C		● ● ●	● ● ●	● ●			8
SUW-1	1 1/4" ~ 2"		0-5(Liquid)								
SUWF (Conn.)	1/2" ~ 2"	#316	0-7(Air)	-5°C ~ 80°C		● ● ●	● ● ●	● ●			15
			0-5(Liquid)								
UWF	1 1/4" ~ 4"	FC-20	0.2-8	-5°C ~ 80°C		● ● ●	● ● ●				16
USF	1 1/4" ~ 4"	FC-20	0.5-10	-5°C ~ 185°C	● ● ●	● ● ●	● ● ●	● ●			17
UG UV	3/8" ~ 2"	Brass	0-7	-5°C ~ 80°C		● ●	● ●		● ● ●	● ● ●	12
		Bronze									
UAW	1/2" ~ 2"	Bronze	2-10	-5°C ~ 80°C		● ● ●	● ● ●				12
UA-8	1/4"	Brass	0-7	-5°C ~ 80°C		● ● ●	● ● ●			● ●	13
UA-10	3/8"		0-10								
UAO	1/4" ~ 1/2"	Brass	0.5-15	-5°C ~ 80°C		● ●	● ● ●	● ● ●			13
UD (NO)	1/8"~1/4"	Brass	0-7	-5°C ~ 80°C		● ● ●	● ● ●	● ●	● ●	● ●	5
	3/8"		0-10								
SUS (NO)	1/8"~1/4"	#316	0-7	-5°C ~ 80°C		● ● ●	● ● ●	● ●	● ●	● ●	6
	3/8"		0-10								
UW-NO	3/8" ~ 1"	Brass	0-7(Air)	-5°C ~ 80°C		● ● ●	● ● ●	● ●	● ●	● ●	7
UW-1NO	1 1/4" ~ 2"	Bronze	0-5(Liquid)								



Products List

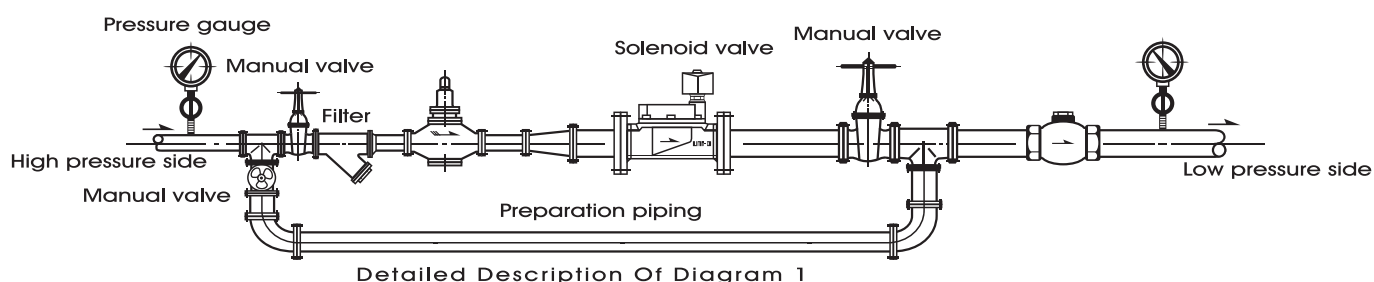
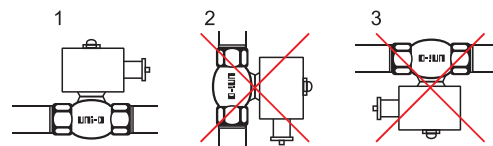
Model	Pipe Size	Material	Operating Pressure kgf / cm ²	Fluid Temp °C	Fluid						Page
					Steam	Water	Air	Oil	Gas	Vacuum	
SUW-NO	3/8" ~ 1"	#316	0-7(Air)	-5°C ~ 80°C		● ● ●	● ● ●	● ●	● ●	● ●	8
SUW-1NO	1 1/4" ~ 2"		0-5(Liquid)								
UDC	1/4" ~ 1/2"	PVC	0-1	-5°C ~ 80°C		● ● ●	● ● ●				14
UDC-TF	1/4" ~ 1"	PTFE (TEFLON)	0-1 0-0.5	-5°C ~ 80°C		● ● ●	● ● ●				14
PKW (EXPLOSION PROOF)	3/8" ~ 1"	Brass	0-7(Air) 0-5(Liquid)	-5°C ~ 80°C		● ● ●	● ● ●	● ●	● ● ●	● ●	21
SKW (EXPLOSION PROOF)	1/2" ~ 1"	#316	0-7(Air) 0-5(Liquid)	-5°C ~ 80°C		● ● ●	● ● ●	● ●	● ● ●	● ●	21
PKS (EXPLOSION PROOF)	1/2" ~ 1"	Brass	0.5-10	-5°C ~ 185°C	● ● ●	● ● ●	● ● ●	● ●			20
SKS (EXPLOSION PROOF)	1/2" ~ 1"	#316	0.5-10	-5°C ~ 185°C	● ● ●	● ● ●	● ● ●	● ●			20
UPS (NO)	1/2" ~ 1"	Brass	0.5-10	-5°C ~ 185°C	● ● ●	● ● ●	● ● ●	● ●			9
SUS (NO)	1/2" ~ 1 1/2"	#316	0.5-10	-5°C ~ 185°C	● ● ●	● ● ●	● ● ●	● ●			10
	2"		0.5-8								
UWF (NO)	1 1/4" ~ 4"	FC-20	0.2-8	-5°C ~ 80°C		● ● ●	● ● ●				16
USF (NO)	1 1/4" ~ 4"	FC-20	0.5-10	-5°C ~ 185°C	● ● ●	● ● ●	● ● ●	● ●			17

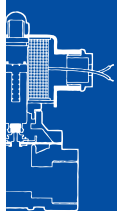
CAUTION :

1. Pipes must be washed neat and clean before fitted.
2. A Y-STRAINER has to installed in the front of solenoid valve, that is best for long life.
3. Before installation, be sure what type of fluid,voltage, pressure and fluid temperature used.

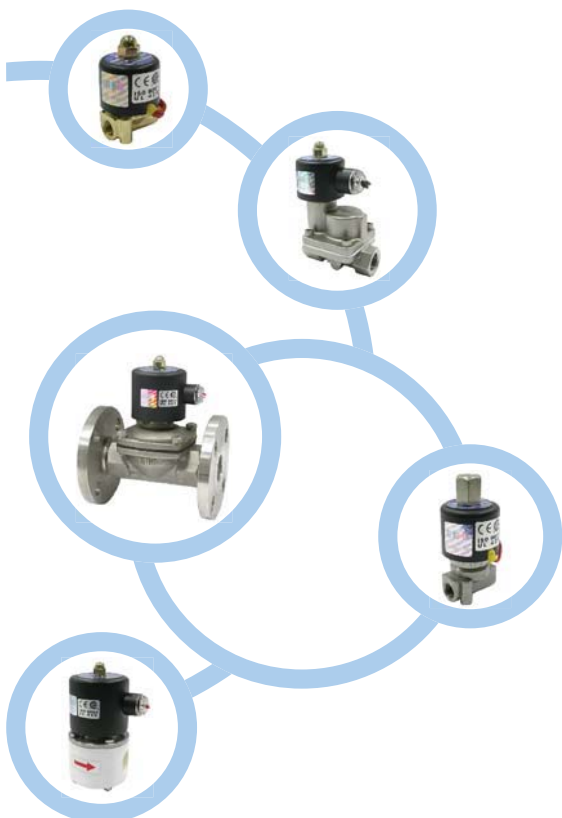


Prohibition vertical operation.

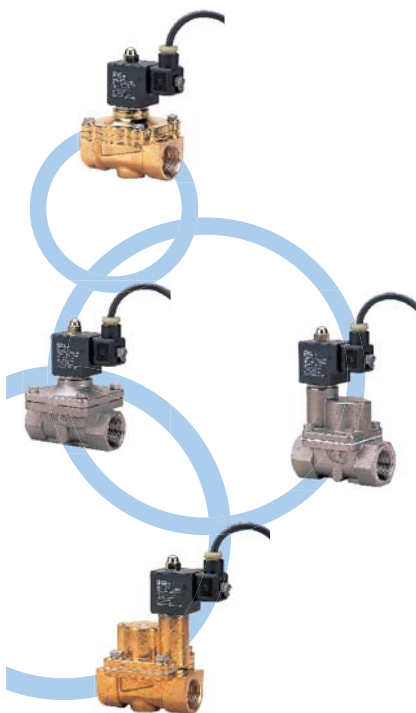




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SOLENOID VALVE



**SOLENOID VALVE
Of Explosion Proof**

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◎ SOLENOID VALVE SERIES

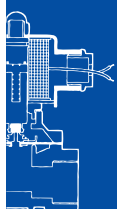
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◎ EXPLOSION PROOF SERIES

● PKS Explosion Proof Series	20
● SKS Explosion Proof Series	20
● PKW Explosion Proof Series	21
● SKW Explosion Proof Series	21

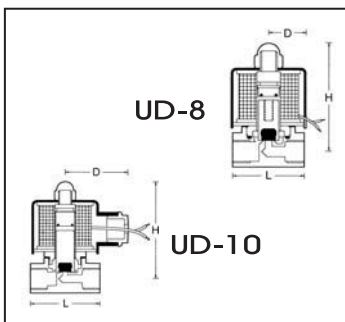
◎ APPENDIX

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UD . UD-NO Series

UD Series

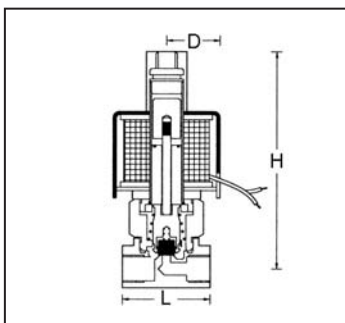


1. UD series is Direct-Acting, conductive, normal close.
2. Valve body made of forged brass.
3. UD can be operated directly without pressure.
4. Small size and easy assembly.
5. Standard voltage : 110VAC / 220VAC / 24VDC
6. Other special AC/DC can be made to client's order.
7. Screwed end: BSPT, NPT , BSP.
8. The standard product fluid temperature is 80°C(NBR).
9. Viton(130°C), Silicon(130°C), PTFE(185°C).
10. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.
11. UD-6~UD-8 provide Gas specification.

MATERAIL	
PARTS	MATERAIL
Body	Forge Brass
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR , Viton , Silicon , PTFE
Washer	NBR · PTFE

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KGF/CM ²				DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	STEAM	VACUUM	L	H	D	
	UD-6	1/8"	0.23	2.5 mm	-5°C ~ 80°C	0-7	0-7		0-10 ⁻³ Torr	41	63	21	0.3
	UD-8	1/4"	0.23	2.5 mm	-5°C ~ 80°C	0-7	0-7		0-10 ⁻³ Torr	41	63	21	0.3
	UD-8	1/4"	0.58	4 mm	-5°C ~ 80°C	0-3	0-3		0-10 ⁻³ Torr	41	63	21	0.3
	UD-8	1/4"	0.79	6 mm	-5°C ~ 80°C	0-1	0-1		0-10 ⁻³ Torr	41	63	21	0.3
	UD-8H	1/4"	0.18	1.2 mm	-5°C ~ 130°C	0-20	0-20		0-10 ⁻³ Torr	41	63	21	0.3
	US-8	1/4"	0.23	2.5 mm	-5°C ~ 185°C			0-7		41	63	21	0.3
●	UD-10	3/8"	0.58	4 mm	-5°C ~ 80°C	0-10	0-10		0-10 ⁻³ Torr	53	75	48	0.6
	UD-10	3/8"	0.79	8 mm	-5°C ~ 80°C	0-3	0-5		0-10 ⁻³ Torr	53	90	48	0.8
	UD-15	1/2"	0.58	8 mm	-5°C ~ 80°C	0-3	0-5		0-10 ⁻³ Torr	53	90	48	0.8
●	UD-10H	3/8"	0.45	2 mm	-5°C ~ 130°C	0-20	0-20		0-10 ⁻³ Torr	53	75	48	0.6
●	US-10	3/8"	0.58	4 mm	-5°C ~ 185°C			0-10		53	75	48	0.6

UD-NO Series



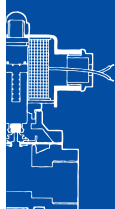
1. UD-NO series is Direct-Acting, conductive, normal open.
2. Valve body made of forged brass.
3. UD-NO can be operated directly without pressure.
4. Small size and easy assembly.
5. Standard vottage : 110VAC / 220VAC / 24VDC
6. Other special AC/DC can be made to client's order.
7. Screwed end: BSPT, NPT, BSP.
8. The standard product fluid temperature is 80°C(NBR).
9. Viton(130°C), Silicon(130°C).
10. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	Forge Brass
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR , Viton , Silicon
Washer	NBR

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KGF/CM ²				DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	GAS	VACUUM	L	H	D	
	UD-6-NO	1/8"	0.23	2.5 mm	-5°C ~ 80°C	0-7	0-7	0-7	0-10 ⁻³ Torr	41	81	21	0.4
	UD-8-NO	1/4"	0.23	2.5 mm	-5°C ~ 80°C	0-7	0-7	0-7	0-10 ⁻³ Torr	41	81	21	0.4
	UD-8-NO	1/4"	0.58	4 mm	-5°C ~ 80°C	0-3	0-3	0-7	0-10 ⁻³ Torr	41	81	21	0.4
	UD-8-NO	1/4"	0.79	6 mm	-5°C ~ 80°C	0-1	0-1	0-7	0-10 ⁻³ Torr	41	81	21	0.4
	UD-8H-NO	1/4"	0.18	1.2 mm	-5°C ~ 130°C	0-20	0-20	0-20	0-10 ⁻³ Torr	41	81	21	0.4
	UD-10-NO	3/8"	0.58	4 mm	-5°C ~ 130°C	0-10	0-10	0-7	0-10 ⁻³ Torr	54	106	48	0.7

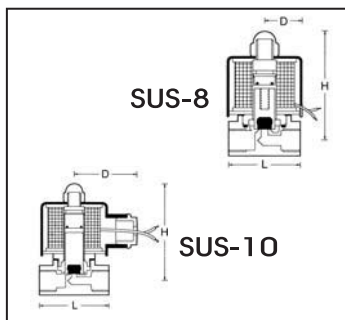


UD.UD-NO Not for Fluid Of : 1. Liquid Status When Heat , Solid Status When Cool. 3. Corrosive Fluid
2. Viscosity Over 50 cst.



SUS-6~10 . SUS-NO Series

SUS-6~10 Series

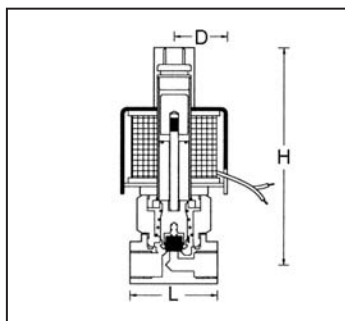


1. SUS series is direct-drive, conductive, normal close.
2. Valve body made of investment casting S/S 316.
3. SUS can be operated directly without pressure.
4. Small size and easy assembly.
5. Standard voltage: 110VAC / 220VAC / 24VDC
6. Other special AC/DC can be made to client's order.
7. Screwed end: BSPT, NPT, BSP.
8. Viton(130°C), Silicon(130°C), PTFE(185°C), NBR(80°C).
9. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	CF8M
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR, Viton, Silicon, PTFE
Washer	NBR · PTFE

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²					DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	STEAM	GAS	VACUUM	L	H	D	
	SUS-6#316	1/8"	0.23	2.5 mm	-5°C ~ 185°C	0-7	0-7	0-7			41	63	21	0.3
	SUS-8#316	1/4"	0.23	2.5 mm	-5°C ~ 185°C	0-7	0-7	0-7			41	63	21	0.3
●	SUS-10#316	3/8"	0.58	4 mm	-5°C ~ 185°C	0-10	0-10	0-10			54	75	48	0.6

SUS-NO Series

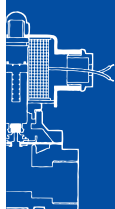


1. SUS-NO series is direct-drive, connected, normal open.
2. Valve body made of investment casting S/S 316.
3. SUS can be operated directly without pressure.
4. Small size and easy assembly.
5. Standard voltage: 110VAC / 220VAC / 24VDC.
6. Other special AC/DC can be made to client's order.
7. Screwed end: BSPT, NPT, BSP.
8. Viton(130°C), Silicon(130°C), PTFE(185°C), NBR(80°C).
9. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	CF8M
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR, Viton, Silicon
Washer	NBR

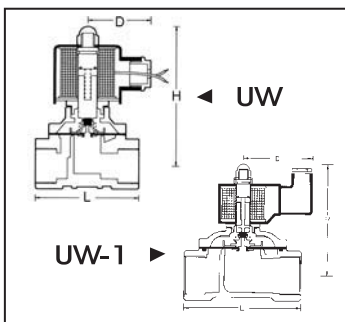
DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²				DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	GAS	VACUUM	L	H	D	
	SUS-6-NO	1/8"	0.23	2.5 mm	-5°C ~ 80°C	0-7	0-7	0-7	0-10 ⁻³	41	90	21	0.4
	SUS-8-NO	1/4"	0.23	2.5 mm	-5°C ~ 80°C	0-7	0-7	0-7	0-10 ⁻³	41	90	21	0.4
	SUS-10-NO	3/8"	0.58	4 mm	-5°C ~ 80°C	0-10	0-10	0-10	0-10 ⁻³	54	116	48	0.7

⚠ SUS-10.SUS-10-NO Not for Fluid Of : 1. Liquid Status When Heat , Solid Status When Cool. 3. Corrosive Fluid
2. Viscosity Over 50 cst.



UW(-1) . UW(-1)NO Series

UW/UW-1 Series

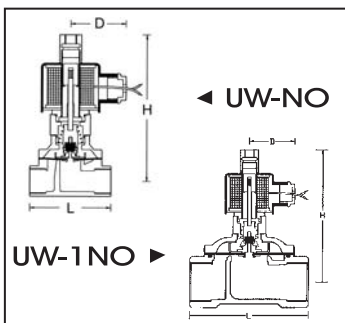


1. UW(-1)series is pilot diaphragm drive,normal close.
2. Valve body made of 3/8"~1" brass or 1/4"~2" cast bronze.
3. UW can be operated directly without pressure
4. Standard voltage: 110VAC / 220VAC / 24VDC
5. Other special AC/DC can be made to client's order.
6. Screwed end: BSPT, NPT, BSP.
8. Viton(130°C), Silicon(130°C), NBR(80°C).
9. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$

MATERAIL	
PARTS	MATERAIL
Body	Forge Brass / Cast Bronze
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR,Viton,Silicon
Diaphragm	NBR,Viton,Silicon

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²			DIMENSION(mm)			WEIGHT (kg)
						AIR	WATER	LIGHT OIL	L	H	D	
●	UW-10	3/8"	2.4	15 mm	-5°C ~ 80°C	0-7	0-5	0-5	70	100	50	0.9
●	UW-15	1/2"	4.5	15 mm	-5°C ~ 80°C	0-7	0-5	0-5	70	100	50	0.9
●	UW-20	3/4"	8.6	20 mm	-5°C ~ 80°C	0-7	0-5	0-5	73	102	50	1.0
●	UW-25	1"	12	25 mm	-5°C ~ 80°C	0-7	0-5	0-5	93	106	50	1.8
●	UW-35-1	1 1/4"	24	35 mm	-5°C ~ 80°C	0-7	0-5	0-5	125	140	58	3.2
●	UW-40-1	1 1/2"	28	40 mm	-5°C ~ 80°C	0-7	0-5	0-5	125	140	58	3.5
●	UW-50-1	2"	48	50 mm	-5°C ~ 80°C	0-7	0-5	0-5	167	170	58	5.4

UW-NO/UW-1NO Series

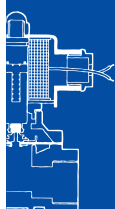


1. UW(-1)NO series is pilot diaphragm drive, normal open.
2. Valve body made of 3/8"~1" forged brass or 1/4"~2" cast bronze.
3. UW(-1)NO can be operated directly without pressure
5. Standard voltage: 110VAC / 220VAC / 24VDC
6. Other special AC/DC can be made to client's order.
7. Screwed end: BSPT, NPT, BSP.
8. Viton(130°C), Silicon(130°C), NBR(80°C).
9. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$

MATERAIL	
PARTS	MATERAIL
Body	Forge Brass / Cast Bronze
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR,Viton,Silicon
Diaphragm	NBR,Viton,Silicon

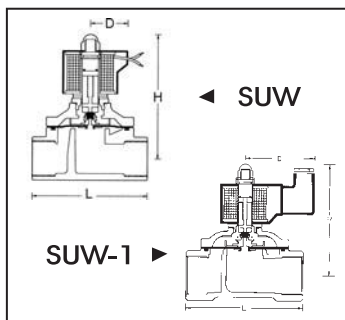
DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²				DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	GAS	VACUUM	L	H	D	
●	UW-10-NO	3/8"	4.5	15 mm	-5°C ~ 80°C	0-5	0-7	0-7	0-10 ⁻³	70	100	50	1.1
●	UW-15-NO	1/2"	4.5	15 mm	-5°C ~ 80°C	0-5	0-7	0-7	0-10 ⁻³	70	100	50	1.1
●	UW-20-NO	3/4"	8.6	20 mm	-5°C ~ 80°C	0-5	0-7	0-7	0-10 ⁻³	73	102	50	1.2
●	UW-25-NO	1"	12	25 mm	-5°C ~ 80°C	0-5	0-7	0-7	0-10 ⁻³	93	106	50	2
●	UW-35-1NO	1 1/4"	24	35 mm	-5°C ~ 80°C	0-5	0-7	0-7	0-10 ⁻³	125	158	58	3.5
●	UW-40-1NO	1 1/2"	28	40 mm	-5°C ~ 80°C	0-5	0-7	0-7	0-10 ⁻³	125	158	58	3.8
●	UW-50-1NO	2"	48	50 mm	-5°C ~ 80°C	0-5	0-7	0-7	0-10 ⁻³	167	158	58	5.7

⚠ UW(-1).UW(-1)NO Not for Fluid Of : 1. Liquid Status When Heat , Solid Status When Cool. 3. Corrosive Fluid
2. Viscosity Over 20 cst.



SUW(-1) . SUW(-1)NO Series

SUW/SUW-1 Series

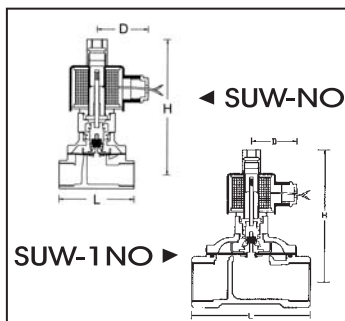


1. SUW(-1) series is pilot diaphragm drive, normal close.
2. Valve body made of investment casting S/S 316.
3. SUW(-1) can be operated directly without pressure.
4. Standard voltage: 110VAC/ 220VAC/ 24VDC
5. Other special AC/DC can be made to client's order.
6. Screwed end: BSPT, NPT , BSP.
7. Viton(130°C), Silicon(130°C), NBR(80°C).
8. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	CF8M
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR,Viton,Silicon
Diaphragm	NBR,Viton,Silicon

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²				DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	LIGHT OIL	VACUUM	L	H	D	
●	SUW-15#316	1/2"	4.5	15 mm	-5°C ~ 80°C	0-5	0-7	0-5		70	100	50	0.9
●	SUW-20#316	3/4"	8.6	20 mm	-5°C ~ 80°C	0-5	0-7	0-5		73	102	50	1.0
●	SUW-25#316	1"	12	25 mm	-5°C ~ 80°C	0-5	0-7	0-5		93	106	50	1.6
●	SUW-35#316	1 1/4"	24	35 mm	-5°C ~ 80°C	0-5	0-7	0-5		125	140	58	3.2
●	SUW-40#316	1 1/2"	28	40 mm	-5°C ~ 80°C	0-5	0-7	0-5		125	140	58	3.4
●	SUW-50#316	2"	48	50 mm	-5°C ~ 80°C	0-5	0-7	0-5		167	170	58	5.8

SUW-NO/SUW-1NO Series

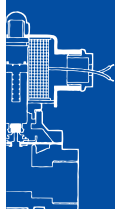


1. SUW(-1)NO series is pilot diaphragm drive, normal open.
2. Valve body made of investment casting S/S 316.
3. SUW(-1)NO can be operated directly without pressure.
4. Standard voltage: 110VAC/ 220VAC/ 24VDC
5. Other special AC/DC can be made to client's order.
6. Screwed end: BSPT, NPT , BSP.
7. Viton(130°C), Silicon(130°C), NBR(80°C).
8. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	CF8M
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR,Viton,Silicon
Diaphragm	NBR,Viton,Silicon

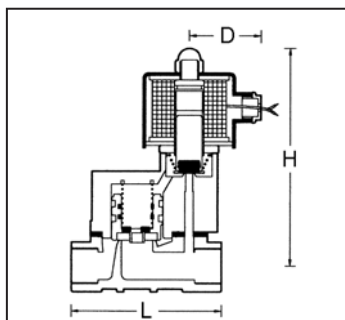
DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²				DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	GAS	VACUUM	L	H	D	
●	SUW-15-NO	1/2"	4.5	15 mm	-5°C ~ 80°C	0-5	0-7	0-7	0-10 ⁻³	70	126	50	1
●	SUW-20-NO	3/4"	8.6	20 mm	-5°C ~ 80°C	0-5	0-7	0-7	0-10 ⁻³	73	132	50	1.1
●	SUW-25-NO	1"	12	25 mm	-5°C ~ 80°C	0-5	0-7	0-7	0-10 ⁻³	93	139	50	1.7
●	SUW-35-NO	1 1/4"	24	35 mm	-5°C ~ 80°C	0-5	0-7	0-7	0-10 ⁻³	125	154	58	3.5
●	SUW-40-NO	1 1/2"	28	40 mm	-5°C ~ 80°C	0-5	0-7	0-7	0-10 ⁻³	125	156	58	3.7
●	SUW-50-NO	2"	48	50 mm	-5°C ~ 80°C	0-5	0-7	0-7	0-10 ⁻³	167	175	58	6.1

⚠ SUW(-1).SUW(-1)NO Not for Fluid Of : 1. Liquid Status When Heat , Solid Status When Cool. 3. Corrosive Fluid
2. Viscosity Over 20 cst.



UPS . UPS-NO Series

UPS Series

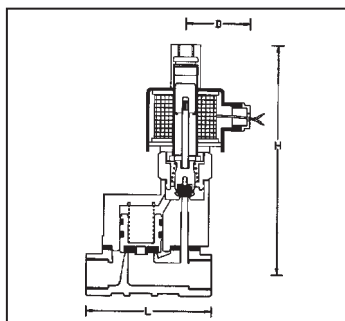


1. UPS series is multiplex-drive, piston guide,conductive normal close.
2. Valve body made of forge bronze.
3. Standard voltage: 110VAC / 220VAC / 24VDC
4. Other special AC/DC can be made to client's order.
5. Screwed end: BSPT , NPT , BSP.
6. The standard product fluid temperature is 185°C(PTFE).
7. Applicable for working in high frequency movement location.
8. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	Forge Brass
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	PTFE
Bonne/Nut	PTFE
Piston	Bronze

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²				DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	STEAM	LIGHT OIL	L	H	D	
●	UPS-15	1/2"	4.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	82	120	48	1.4
●	UPS-20	3/4"	6.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	82	120	48	1.5
●	UPS-25	1"	12	22 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	100	134	48	1.8

UPS-NO Series



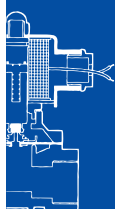
1. UPS-NO series is multiplex-drive, piston guide, conductive normal open.
2. Valve body made of cast bronze.
3. Standard voltage: 110VAC / 220VAC / 24VDC
4. Other special AC/DC can be made to client's order.
5. Screwed end: BSPT , NPT , BSP.
6. The standard product fluid temperature is 185°C(PTFE).
7. Applicable for working in high frequency movement location.
8. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	Forge Brass
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	PTFE
Bonne/Nut	PTFE
Piston	Bronze

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²				DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	STEAM	LIGHT OIL	L	H	D	
	UPS-15-NO	1/2"	4.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	82	120	48	1.4
	UPS-20-NO	3/4"	6.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	82	120	48	1.5
	UPS-25-NO	1"	12	22 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	100	134	48	1.8

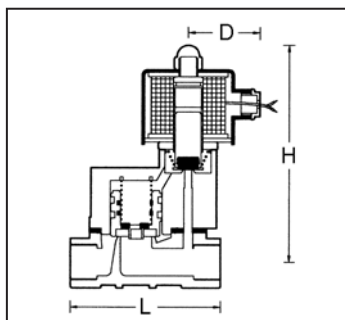
UPS. UPS-NO Not for Fluid Of :

1. Liquid Status When Heat , Solid Status When Cool.
2. Viscosity Over 20 cst.
3. Corrosive Fluid



SUS . SUS-NO Series

SUS Series

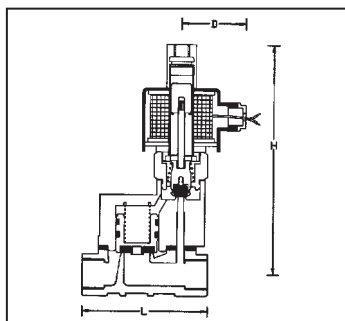


1. SUS series is multiplex-drive, piston guide,conductive normal close.
2. Valve body made of investment casting S/S 316.
3. Standard voltage: 110VAC / 220VAC / 24VDC
5. Other special AC/DC can be made to client's order.
6. Screwed end: BSPT , NPT , BSP.
7. The standard product fluid temperature is 185°C(PTFE).
8. Applicable for working in high frequency movement location.
9. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	CF8M
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	PTFE
Bonne/Nut	PTFE
Piston	#316

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²				DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	STEAM	LIGHT OIL	L	H	D	
●	SUS-15#316	1/2"	4.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	82	120	48	1.4
●	SUS-20#316	3/4"	6.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	82	120	48	1.5
●	SUS-25#316	1"	12	22 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	100	134	48	1.8
●	SUS-35#316	1 1/4"	18	30 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	125	138	48	2.8
●	SUS-40#316	1 1/2"	22	30 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	125	146	48	2.9
●	SUS-50#316	2"	48	50 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	168	173	48	5.8

SUS-NO Series

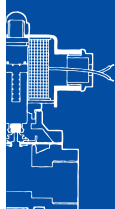


1. SUS-NO series is multiplex-drive, piston guide, conductive normal open.
2. Valve body made of cast bronze.
3. Standard voltage: 110VAC / 220VAC / 24VDC
5. Other special AC/DC can be made to client's order.
6. Screwed end: BSPT , NPT , BSP.
7. The standard product fluid temperature is 185°C(PTFE).
9. Applicable for working in high frequency movement location.
10. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	CF8M
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	PTFE

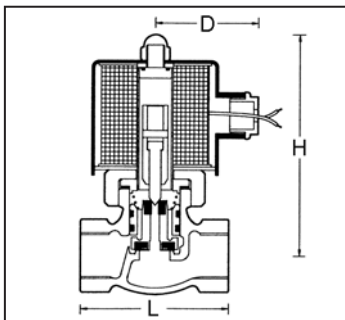
DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²				DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	STEAM	LIGHT OIL	L	H	D	
	SUS-15-NO	1/2"	4.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-8	82	120	48	1.4
	SUS-20-NO	3/4"	6.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-8	82	120	48	1.5
	SUS-25-NO	1"	12	22 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-8	100	134	48	1.8
	SUS-35-NO	1 1/4"	18	30 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-8	125	138	48	2.8
	SUS-40-NO	1 1/2"	22	30 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-8	125	146	48	2.9
	SUS-50-NO	2"	48	50 mm	-5°C ~ 185°C	0.5-8	0.5-8	0.5-8	0.5-8	168	173	48	5.8

! SUS.SUS-NO Not for Fluid Of : 1. Liquid Status When Heat , Solid Status When Cool. 3. Corrosive Fluid
2. Viscosity Over 20 cst.



US Series. US-F Series

US Series

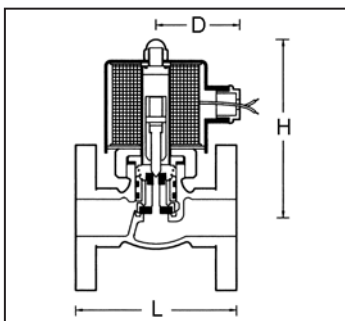


1. US series is multiplex-drive, piston guide ,conductive normal close.
2. Valve body made of cast bronze.
3. Standard voltage: 110VAC / 220VAC / 24VDC
4. Other special AC/DC can be made to client's order.
5. Screwed end: BSPT , NPT , BSP.
6. The standard product fluid temperature is 185°C(PTFE).
8. In special case ,US can made 20 kgf/ cm², 30kgf/cm² 40 kgf/cm² Please state the type of fluid with your order.
9. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	Cast Bronze
Coil	Special Copper Wire (H)
Core Needle	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	PTFE + 15%GF
Bonne/Nut	PTFE
Piston	Brass

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²				DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	STEAM	HEAVY OIL	L	H	D	
	US-15	1/2"	4.0	17 mm	-5°C ~ 185°C	0.5-15	0.5-15	0.5-10	0.5-10	82	120	58	1.7
	US-20	3/4"	6.0	17 mm	-5°C ~ 185°C	0.5-15	0.5-15	0.5-10	0.5-10	82	123	58	1.7
	US-25	1"	12	22 mm	-5°C ~ 185°C	0.5-15	0.5-15	0.5-10	0.5-10	91	130	58	2.0
	US-35	1 1/4"	18	30 mm	-5°C ~ 185°C	1-10	1-15	1-10	1-10	110	141	58	3.1
	US-40	1 1/2"	22	30 mm	-5°C ~ 185°C	1-10	1-15	1-10	1-10	110	144	58	3.3
	US-50	2"	48	50 mm	-5°C ~ 185°C	1-10	1-15	1-10	1-10	163	173	58	7.2

US-F Series



1. US-F series is multiplex-drive, piston guide , conductive normal close.
2. Valve body made of cast bronze.
3. Standard voltage: 110VAC / 220VAC / 24VDC
4. Other special AC/DC can be made to client's order.
5. Screwed end: BSPT, NPT , BSP.
6. The standard product fluid temperature is 185°C(PTFE).
7. In special case ,US can made 20 kgf/ cm², 30kgf/cm² 40 kgf/cm² Please state the type of fluid with your order.
8. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

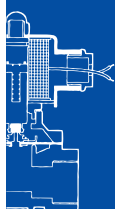
MATERAIL	
PARTS	MATERAIL
Body	Cast Bronze
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	PTFE
Bonne/Nut	PTFE + 15%GF
Piston	Brass

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²				DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	STEAM	HEAVY OIL	L	H	D	
	US-15F	1/2"	4.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-15	0.5-10	0.5-10	105	120	58	2.6
	US-20F	3/4"	6.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-15	0.5-10	0.5-10	110	123	58	3
	US-25F	1"	12	22 mm	-5°C ~ 185°C	0.5-10	0.5-15	0.5-10	0.5-10	120	130	58	4.2
	US-35F	1 1/4"	18	30 mm	-5°C ~ 185°C	1-10	1-15	1-10	1-10	140	141	58	5.8
	US-40F	1 1/2"	22	32 mm	-5°C ~ 185°C	1-10	1-15	1-10	1-10	140	144	58	6.5
	US-50F	2"	48	50 mm	-5°C ~ 185°C	1-10	1-15	1-10	1-10	195	173	58	10.5



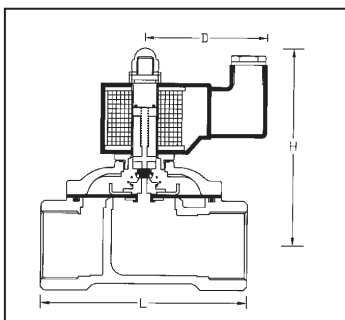
US.US-F Not for Fluid Of :

1. Liquid Status When Heat , Solid Status When Cool.
2. Viscosity Over 20 cst.
3. Corrosive Fluid



UG(For Gas)/UV(For Vacuum) . UAW Series

UG(For Gas)/UV(For Vacuum) Series

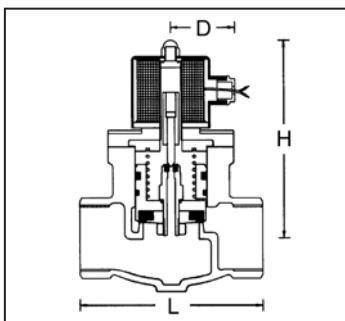


1. UG/UV series is pilot diaphragm drive, connected to diaphragm, normal close.
2. Valve body made of forged brass or cast bronze.
3. UG/UV can be operated directly without pressure.
5. Standard voltage: 110VAC / 220VAC / 24VDC
6. Other special AC/DC can be made to client's order.
7. Screwed end: BSPT , NPT , BSP.
8. The standard product fluid temperature is 80°C(NBR).
9. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	Forge Brass / Cast Bronze
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR
Diaphragm	NBR For Gas use

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²		DIMENSION(mm)			WEIGHT (kg)
						GAS	VACUUM	L	H	D	
●	U(G/V)-10	3/8"	4.5	15 mm	-5°C ~ 80°C	0-7	0-10 ⁻³ Torr	70	100	50	0.9
●	U(G/V)-15	1/2"	4.5	15 mm	-5°C ~ 80°C	0-7	0-10 ⁻³ Torr	70	100	50	0.9
●	U(G/V)-20	3/4"	8.6	20 mm	-5°C ~ 80°C	0-7	0-10 ⁻³ Torr	73	102	50	1.0
●	U(G/V)-25	1"	12	25 mm	-5°C ~ 80°C	0-7	0-10 ⁻³ Torr	93	106	50	1.8
●	U(G/V)-35	1 1/4"	24	35 mm	-5°C ~ 80°C	0-7	0-10 ⁻³ Torr	125	140	58	3.2
●	U(G/V)-40	1 1/2"	28	40 mm	-5°C ~ 80°C	0-7	0-10 ⁻³ Torr	125	140	58	3.5
●	U(G/V)-50	2"	48	50 mm	-5°C ~ 80°C	0-7	0-10 ⁻³ Torr	167	170	58	5.4

UAW Series



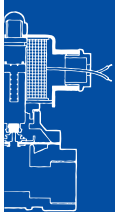
1. UAW series is multiplex-drive, piston guide, conductive normal close.
2. Valve body made of cast bronze.
3. Standard voltage: 110VAC / 220VAC / 24VDC
6. Other special AC/DC can be made to client's order.
7. Screwed end: BSPT, NPT , BSP.
8. In case the pressure range is more than 15 kgf/cm² (with in 20 kgf/cm²) please state the type of fluid with your order.
9. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	Cast Bronze
Coil	Special Copper Wire (H)
Core Needle	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	PTFE + 15%GF
Bonne/Nut	NBR
Piston	Bronze

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²			DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	HEAVY OIL	L	H	D	
	UAW-15	1/2"	4.0	17 mm	-5°C ~ 80°C	2-10	2-15		82	120	58	1.7
	UAW-20	3/4"	6.0	17 mm	-5°C ~ 80°C	2-10	2-15		82	123	58	1.7
	UAW-25	1"	12	22 mm	-5°C ~ 80°C	2-10	2-15		91	130	58	2.0
	UAW-35	1 1/4"	18	30 mm	-5°C ~ 80°C	2-10	2-15		110	141	58	3.1
	UAW-40	1 1/2"	22	32 mm	-5°C ~ 80°C	2-10	2-15		110	144	58	3.3
	UAW-50	2"	48	50 mm	-5°C ~ 80°C	2-10	2-15		163	173	58	7.2

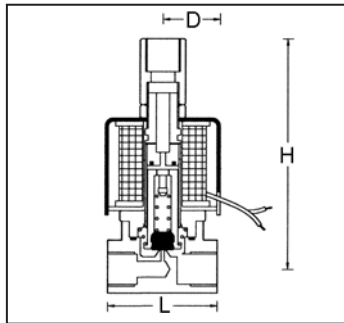
⚠ UG/UV.UAW Not for Fluid Of :

1. Liquid Status When Heat , Solid Status When Cool.
2. Viscosity Over 20 cst.
3. Corrosive Fluid



UA(3 way) . UAO Series

UA(3 way) Series

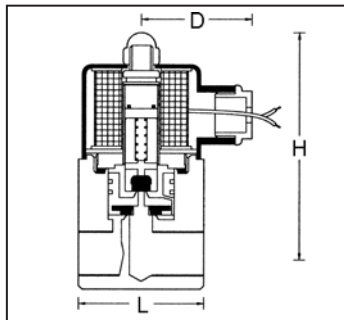


1. UA series is direct-drive, conductive normal close.
2. Valve body made of forged brass.
3. UA can be operated directly without pressure.
4. Standard voltage: 110VAC / 220VAC / 24VDC
5. Other special AC/DC can be made to client's order.
6. Screwed end: BSPT , NPT , BSP.
7. The standard product fluid temperature is 80°C(NBR).
8. Applicable for exhausting facility needed as power-off, such as pneumatic control valve
9. UA series is most applicable for cylinder control valve, diaphragm control valve, and spring rebound type cylinder.
10. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	Forge Brass
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR
Diaphragm	NBR

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²			DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	VACUUM	L	H	D	
	UA-8	1/4"	0.1	1.2 mm	-5°C ~ 80°C	0-10	0-10	0-10 ⁻³ Torr	42	88	21	0.39
●	UA-10	3/8"	0.12	1.5 mm	-5°C ~ 80°C	0-10	0-10	0-10 ⁻³ Torr	53	105	49	0.7

UAO Series

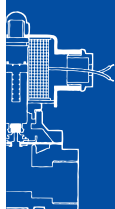


1. UAO series is multiplex-drive, piston guide, conductive normal close.
2. Valve body made of brass.
3. Standard voltage: 110VAC / 220VAC / 24VDC
4. Other special AC/DC can be made to client's order.
5. Screwed end: BSPT , NPT , BSP.
6. Applicable for high frequency movement.
7. Heavy oil must be pressing and heating.
8. UAO series is most applicable for sand blasting machine and high-pressure air/oil spray system.
9. The standard product fluid temperature is 80°C(NBR).
10. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	Brass
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR
Piston	Brass

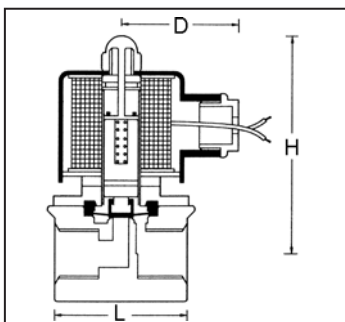
DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²			DIMENSION(mm)			WEIGHT (kg)
						AIR	WATER	OIL	L	H	D	
●	UAO-8	1/4"	2.5	10 mm	-5°C ~ 80°C	0.5-15	0.5-15	0.5-15	49	110	49	1.1
●	UAO-10	3/8"	2.5	10 mm	-5°C ~ 80°C	0.5-15	0.5-15	0.5-15	49	110	49	1.1
●	UAO-15	1/2"	2.5	10 mm	-5°C ~ 80°C	0.5-15	0.5-15	0.5-15	49	110	49	1.1

- ⚠ UA.UAO Not for Fluid Of :**
1. Liquid Status When Heat , Solid Status When Cool.
 2. Viscosity Over 50 cst.
 3. Corrosive Fluid



UDC . UDC-TF Series (Corrosion Resistance)

UDC Corrosion Resistance Series (PVC Body)

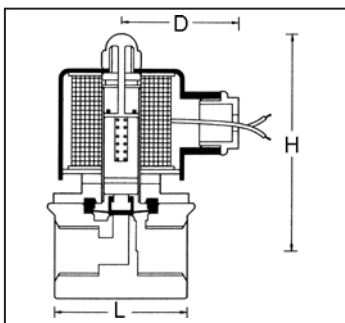


1. UDC series is direct-drive, conductive to diaphragm, normal close.
2. Valve body made of PVC.
3. Small size and easy assembly.
4. Standard voltage: 110VAC / 220VAC / 24VDC
5. Other special AC/DC can be made to client's order.
6. The standard product fluid temperature is 80°C(NBR).
7. Screwed end: BSPT , NPT , BSP.
8. UDC can be operated directly without pressure
9. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	PVC
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Diaphragm	PTFE
Washer	Synthetic Rubber

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²		DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	L	H	D	
●	UDC-8	1/4"	0.28	6.5 mm	-5°C ~ 80°C	0-1	0-1	54	103	48	0.6
●	UDC-10	3/8"	0.28	6.5 mm	-5°C ~ 80°C	0-1	0-1	54	103	48	0.6
●	UDC-15	1/2"	0.28	6.5 mm	-5°C ~ 80°C	0-1	0-1	54	103	48	0.6

UDC-TF Corrosion Resistance Series (TEFLON Body)



1. UDC-TF series is direct-drive, conductive to diaphragm, normal close.
2. Valve body made of PTFE.
3. Standard voltage: 110VAC / 220VAC / 24VDC
4. Other special AC/DC can be made to client's order.
5. The standard product fluid temperature is 185°C(PTFE).
6. Screwed end: BSPT , NPT , BSP.
7. The UDC-TF is for Strong acid and alkali.
8. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

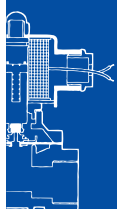
MATERAIL	
PARTS	MATERAIL
Body	PTFE
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Diaphragm	PTFE
Washer	Synthetic Rubber

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²		DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	L	H	D	
●	UDC-8-TF	1/4"	0.28	6.5 mm	-5°C ~ 80°C	0-1	0-1	51	90	48	0.576
●	UDC-10-TF	3/8"	0.28	6.5 mm	-5°C ~ 80°C	0-1	0-1	51	90	48	0.567
●	UDC-15-TF	1/2"	0.28	6.5 mm	-5°C ~ 80°C	0-1	0-1	54	103	48	0.65
	UDC-20-TF	3/4"	4	13 mm	-5°C ~ 80°C	0-0.5	0-0.5	71	115	54	1.8
	UDC-25-TF	1"	4	13 mm	-5°C ~ 80°C	0-0.5	0-0.5	71	115	54	1.8



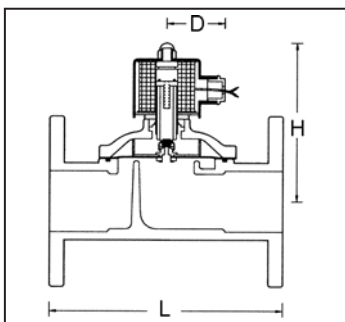
UDC.UDC-TF Not for Fluid Of :

1. Liquid Status When Heat , Solid Status When Cool.
2. Prohibition applicable for high frequency movement.
3. Corrosive Fluid



UW-F . SUW-F Series

UW-F Series

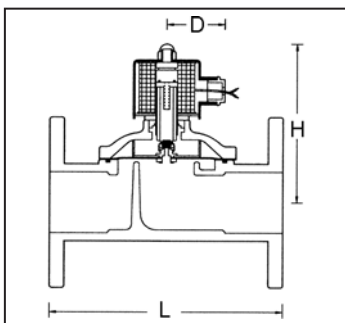


1. UW-F series is direct multiplex-drive, connected to diaphragm, conductive normal close.
2. Valve body made of 3/8"~1" brass or 1/4"~2" cast bronze.
3. UWF can be operated directly without pressure.
4. Standard voltage: 110VAC / 220VAC / 24VDC
5. Other special AC/DC can be made to client's order.
6. Flange end: JIS 10K, ANSI 150LBS or PN-16.
7. The standard product fluid temperature is 80°C(NBR).
8. Viton(130°C), Silicon(130°C).
9. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERIAL	
PARTS	MATERIAL
Body	Forge Brass / Cast Bronze
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR,Viton,Silicon
Diaphragm	NBR,Viton,Silicon

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²			DIMENSION(mm)			WEIGHT (kg)
						AIR	WATER	LIGHT OIL	L	H	D	
●	UW-15F	1/2"	4.5	15 mm	-5°C ~ 80°C	0-7	0-5	0-5	95	100	50	2.1
●	UW-20F	3/4"	8.6	20 mm	-5°C ~ 80°C	0-7	0-5	0-5	100	102	50	2.6
●	UW-25F	1"	12	25 mm	-5°C ~ 80°C	0-7	0-5	0-5	150	106	50	4.3
●	UW-35F	1 1/4"	24	35 mm	-5°C ~ 80°C	0-7	0-5	0-5	155	140	58	5.9
●	UW-40F	1 1/2"	28	40 mm	-5°C ~ 80°C	0-7	0-5	0-5	155	140	58	6.8
●	UW-50F	2"	48	50 mm	-5°C ~ 80°C	0-7	0-5	0-5	200	170	58	8.8

SUW-F Series



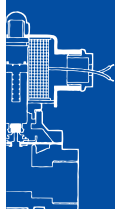
1. SUW-F series is direct multiplex-drive, connected to diaphragm, normal close.
2. Valve body made of investment casting S/S 316.
3. SUW-F can be operated directly without pressure.
4. Standard voltage: 110VAC / 220VAC / 24VDC
5. Other special AC/DC can be made to client's order
6. Flange end : JIS 10K, ANSI 150LBS or PN-16
7. Viton(130°C), Silicon(130°C), NBR(80°C).
8. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERIAL	
PARTS	MATERIAL
Body	CF8M
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR,Viton,Silicon
Diaphragm	NBR,Viton,Silicon

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²				DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	LIGHT OIL	VACUUM	L	H	D	
●	SUW-15F	1/2"	4.5	15 mm	-5°C ~ 80°C	0-5	0-7	0-5		110	100	36	1.9
●	SUW-20F	3/4"	8.6	20 mm	-5°C ~ 80°C	0-5	0-7	0-5		120	102	36	2.4
●	SUW-25F	1"	12	25 mm	-5°C ~ 80°C	0-5	0-7	0-5		150	106	36	3.6
	SUW-35F	1 1/4"	24	35 mm	-5°C ~ 80°C	0-5	0-7	0-5		170	140	58	6.1
	SUW-40F	1 1/2"	28	40 mm	-5°C ~ 80°C	0-5	0-7	0-5		170	140	58	6.4
	SUW-50F	2"	48	50 mm	-5°C ~ 80°C	0-5	0-7	0-5		210	170	58	9.3

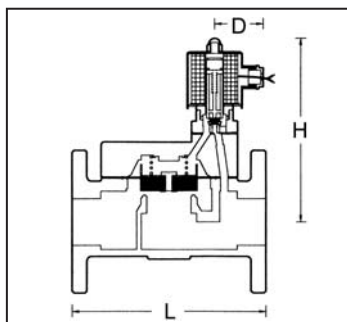
⚠ UW-F.SUW-F Not for Fluid Of :

1. Liquid Status When Heat , Solid Status When Cool.
2. Viscosity Over 20 cst.
3. Corrosive Fluid



UWF . UWF-NO Series

UWF Series

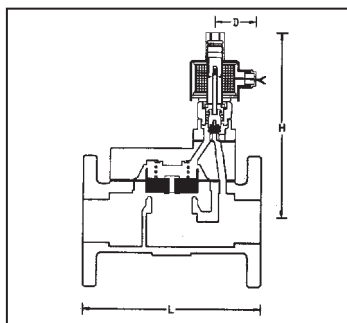


1. UWF series is multiplex-drive, diaphragm guide, conductive normal close.
2. Valve body made of FC-20.
3. Standard voltage : 110VAC / 220VAC / 24VDC
4. Other special AC/DC can be made to client's order.
5. Flange end: JIS 10K, ANSI 150 LB or PN-16
6. The standard product fluid temperature is 80°C(NBR).
7. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	FC-20
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR
Diaphragm	NBR

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²			DIMENSION(mm)			WEIGHT (kg)
						AIR	WATER	LIGHT OIL	L	H	D	
	UW-35F	1 1/4"	22	35 mm	-5°C ~ 80°C	0.2-8	0.2-8		200	185	58	8.7
	UW-40F	1 1/2"	30	40 mm	-5°C ~ 80°C	0.2-8	0.2-8		200	185	58	8.8
	UW-50F	2"	40	50 mm	-5°C ~ 80°C	0.2-8	0.2-8		210	203	58	11.2
	UW-65F	2 1/2"	68	65 mm	-5°C ~ 80°C	0.2-8	0.2-8		240	198	58	15.2
	UW-80F	3"	102	80 mm	-5°C ~ 80°C	0.2-8	0.2-8		300	212	58	20.6
	UW-100F	4"	180	100 mm	-5°C ~ 80°C	0.2-8	0.2-8		340	228	58	31.5

UWF-NO Series

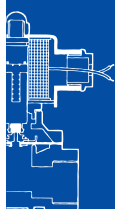


1. UWF-NO series is multiplex-drive, diaphragm guide, conductive normal open.
2. Valve body made of FC-20.
3. Standard voltage : 110VAC / 220VAC / 24VDC
4. Other special AC/DC can be made to client's order.
5. Flange end: JIS 10K, ANSI 150 LB or PN-16
6. The standard product fluid temperature is 80°C(NBR).
8. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	FC-20
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR
Diaphragm	NBR

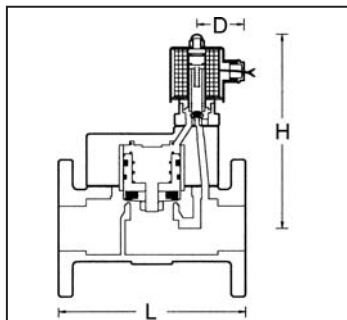
DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²			DIMENSION(mm)			WEIGHT (kg)
						AIR	WATER	LIGHT OIL	L	H	D	
	UW-35F-NO	1 1/4"	22	35 mm	-5°C ~ 80°C	0.2-8	0.2-8		200	205	58	8.9
	UW-40F-NO	1 1/2"	30	40 mm	-5°C ~ 80°C	0.2-8	0.2-8		200	205	58	9.0
	UW-50F-NO	2"	40	50 mm	-5°C ~ 80°C	0.2-8	0.2-8		210	223	58	11.4
	UW-65F-NO	2 1/2"	68	65 mm	-5°C ~ 80°C	0.2-8	0.2-8		240	218	58	15.4
	UW-80F-NO	3"	102	80 mm	-5°C ~ 80°C	0.2-8	0.2-8		300	232	58	20.8
	UW-100F-NO	4"	180	100 mm	-5°C ~ 80°C	0.2-8	0.2-8		340	248	58	31.7

UWF.UWF-NO Not for Fluid Of :
 1. Liquid Status When Heat , Solid Status When Cool.
3. Corrosive Fluid
2. Viscosity Over 20 cst.



USF . USF-NO Series

USF Series

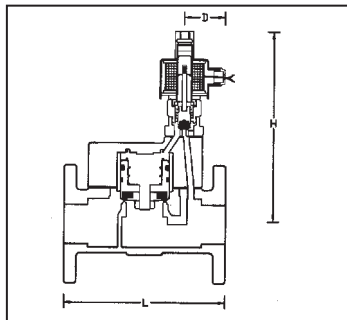


1. USF series is multiplex-dirve, piston guide, conductive normal close.
2. Valve body made of FC-20.
3. Standard voltage : 110VAC/ 220VAC/ 24VDC
4. Other special AC/DC can be made to clinet's order.
5. Flanged end to: JIS 10K, ANSI 150 LB or PN-16.
7. The standard product fluid temperature is 185°C(PTFE).
8. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	FC-20
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	PTFE
Bonne/Nut	PTFE
Piston	Bronze

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²			DIMENSION(mm)			WEIGHT (kg)
						STEAM	WATER	AIR	L	H	D	
	US-35F	1 1/4"	22	35 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	200	206	58	10.5
	US-40F	1 1/2"	30	40 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	200	206	58	11.7
	US-50F	2"	40	50 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	210	223	58	13.5
	US-65F	2 1/2"	68	65 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	240	230	58	19.1
	US-80F	3"	100	80 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	300	249	58	27
	US-100F	4"	175	100 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	340	264	58	39

USF-NO Series



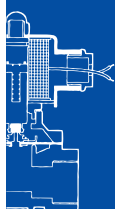
1. USF-NO series is multiplex-dirve, piston guide, conductive normal open.
2. Valve body made of FC-20.
3. Standard voltage : 110VAC/ 220VAC/ 24VDC
4. Other special AC/DC can be made to clinet's order.
5. Flanged end to: JIS 10K, ANSI 150 LB or PN-16.
6. The standard product fluid temperature is 185°C(PTFE).
7. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	FC-20
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	PTFE
Bonne/Nut	PTFE
Piston	Bronze

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²			DIMENSION(mm)			WEIGHT (kg)
						STEAM	WATER	AIR	L	H	D	
	US-35F-NO	1 1/4"	22	35 mm	-5°C ~ 185°C	0.5-8	0.5-8	0.5-8	200	226	58	10.7
	US-40F-NO	1 1/2"	30	40 mm	-5°C ~ 185°C	0.5-8	0.5-8	0.5-8	200	226	58	11.9
	US-50F-NO	2"	40	50 mm	-5°C ~ 185°C	0.5-8	0.5-8	0.5-8	210	243	58	13.7
	US-65F-NO	2 1/2"	68	65 mm	-5°C ~ 185°C	0.5-8	0.5-8	0.5-8	240	250	58	19.3
	US-80F-NO	3"	100	80 mm	-5°C ~ 185°C	0.5-8	0.5-8	0.5-8	300	269	58	27.2
	US-100F-NO	4"	175	100 mm	-5°C ~ 185°C	0.5-8	0.5-8	0.5-8	340	284	58	39.2

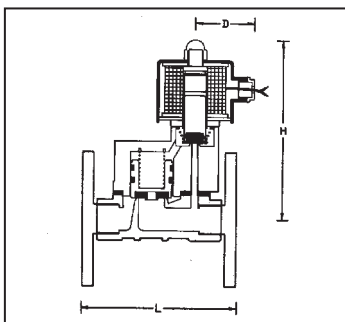

USF.USF-NO Not for Fluid Of :

1. Liquid Status When Heat , Solid Status When Cool.
2. Viscosity Over 20 cst.
3. Corrosive Fluid



SUS-F Series / Appendix 1 - Coil Type

SUS-F Series

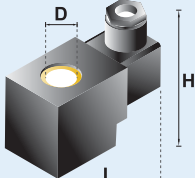
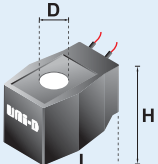
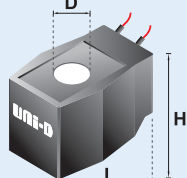
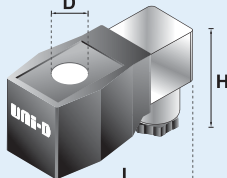
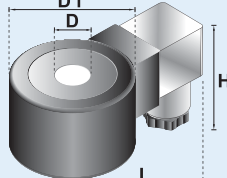


1. SUS-F series is multiplex-drive, piston guide, conductive normal close.
2. Valve body made of investment casting S/S 316.
3. Standard voltage: 110VAC / 220VAC / 24VDC
4. Other special AC/DC can be made to client's order.
5. Screw end to BSPT, NPT, BSP.
6. The standard product fluid temperature is 185°C(PTFE).
7. Applicable for working in high frequency movement location.
8. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	CF8M
Coil	Special Copper Wire (H)
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	PTFE
Bonne/Nut	PTFE
Piston	CF8M

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²				DIMENSION(mm)			WEIGHT (kg)
						WATER	AIR	STEAM	LIGHT OIL	L	H	D	
●	SUS-15F	1/2"	4.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	120	120	48	2.5
●	SUS-20F	3/4"	6.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	120	120	48	3
●	SUS-25F	1"	12	22 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	150	134	48	4.2
●	SUS-35F	1 1/4"	18	30 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	170	138	48	5.4
●	SUS-40F	1 1/2"	22	30 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	170	146	48	6
●	SUS-50F	2"	48	50 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10	210	173	48	9.5

Type	XL Type				L Type				M Type				S Type			
Dimension (mm)																
	D1	D2	D3	H	D1	D2	D3	H	D1	D2	D3	H	D1	D2	D3	H
	Ø 60.7	Ø 20.8	Ø 63.2	53.1	Ø 42.3	Ø 11.6	Ø 44.4	42.1	Ø 42.5	Ø 16.5	Ø 44.4	34.4	Ø 37.3	Ø 14.2	Ø 37.5	29.2
Model	US-15-50 / UW-35-50 / SUW-35-50 / UW-35-50NO / SUW-35-50NO / UW-35F-100F / US-35-100F / UWF-NO / USF-NO / US-35-50F(Coon)				UW-25 / UD-10-15 / SUW-25				US-10(+NO) / UD-10(+NO) / UD-10H / UW-10-20 (+NO) / SUW-15-25(+NO) / UA-10 / UW-35-1-50 / UPS-15-25(+NO) / SUS-15-50(+NO) / SUS-10(+NO)				UD-8 / UA-8 / UD-8NO / UD-6 / UD-6H / UD-8H / US-8 / US-6 / US-6NO / US-8NO / UD-6NO / SUS-8 / SUS-8NO / SUS-6 / SUS-6NO			

Type	Waterproof Coil						DIN								NASS (EEx mII T4)		
Dimension (mm)	S Type			M Type			AC			DC							
																	
	D	L	H	D	L	H	D	L	H	D	D1	L	H	D	L	H	
	Ø 14.1	50.5	32.4	Ø 16.6	56.6	38	Ø 16.3	82	49.3	Ø16.3	Ø55.8	97	38	Ø 14.6	71.1	47.2	
Model	UD-6 / UD-6H / UD-8 / UD-8H / UA-8 / US-8			UW-10~25(+NO) / UA-10 / UW-35-1~50(+NO) / UPS-15~25 / SUW-15-25(+NO) / SUS-15-50			US-10 / UD-10 / UD-10H / UW-10~25 / UW-10~25NO / SUW-15-25 / SUW-15-25NO / UA-10 / UW-35-1~50 / UW-35-1~50NO / UPS-15~25 / SUS-15~50 / UAO-8~15 / UDC-8~15 / UDC-TF-8~15								UW-10~25 / SUW-15-25 / UPS-15~25 / SUS-15-25		



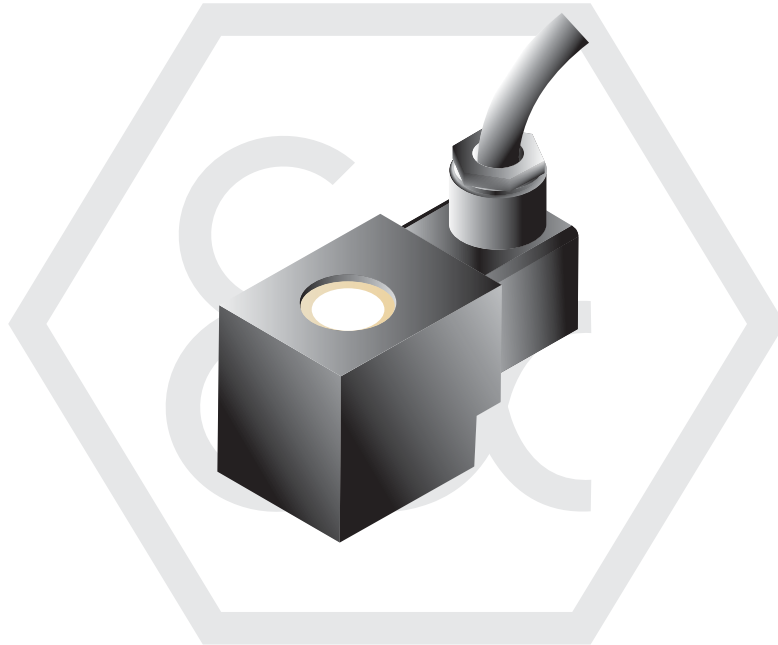
SUS-F Not for Fluid Of :

1. Liquid Status When Heat , Solid Status When Cool.
2. Viscosity Over 20 cst.

3. Corrosive Fluid

Solenoid Valve Of Explosion Proof

PKS SKS PKW SKW



PKS Series



PKW Series



SKS Series



SKW Series

General Description:

The **PKW** , **SKW** , **PKS** , **SKS** combination provides reliable explosion-proof for a wide range of applications.

The explosion-proof level is : **EEx mII T4**.

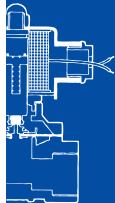
Power Requirement: 110VAC , 220VAC , 24VDC

Features:

These coils are approved according to EN 50020 , DIN VDE 0170/0171.

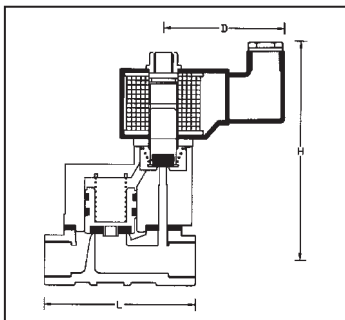
Fluid:

Steam . Water . Air . Oil . Gas . Vacuum



PKS . SKS Of Explosion Proof Series

PKS Of Explosion Proof Series(EEx mII T4)

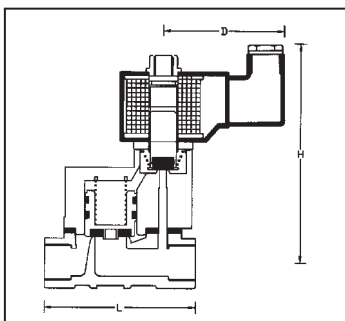


1. PKS series is multiplex-drive, piston guide,conductive normal close.
2. Valve body made of forge bronze.
3. Standard voltage: 110VAC / 220VAC / 24VDC
4. Screwed end: BSPT , NPT , BSP.
5. The standard product fluid temperature is 185°C(PTFE).
6. Applicable for working in high frequency movement location.
7. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	Forge Brass
Coil	EEx mII T4
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	PTFE
Bonne/Nut	PTFE
Piston	Bronze

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²			
						AIR	WATER	LIGHT OIL	STEAM
	PKS-15	1/2"	4.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10
	PKS-20	3/4"	6.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10
	PKS-25	1"	12	22 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10

SKS Of Explosion Proof Series(EEx mII T4)



1. SKS series is multiplex-drive, piston guide,conductive normal close.
2. Valve body made of investment casting S/S 316.
3. Standard voltage: 110VAC / 220VAC / 24VDC
4. Screwed end: BSPT , NPT , BSP.
5. The standard product fluid temperature is 185°C(PTFE).
6. Applicable for working in high frequency movement location.
7. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERAIL	
PARTS	MATERAIL
Body	#316
Coil	EEx mII T4
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	PTFE
Bonne/Nut	PTFE
Piston	CF8M

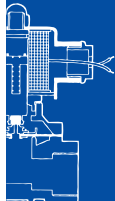
DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²			
						AIR	WATER	LIGHT OIL	STEAM
	SKS-15	1/2"	4.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10
	SKS-20	3/4"	6.0	17 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10
	SKS-25	1"	12	22 mm	-5°C ~ 185°C	0.5-10	0.5-10	0.5-10	0.5-10



PKS.SKS Not for Fluid Of :

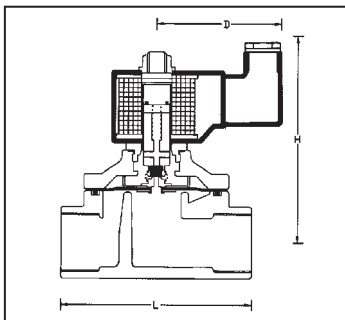
1. Liquid Status When Heat , Solid Status When Cool.
2. Viscosity Over 20 cst.

3. Corrosive Fluid



PKW . SKW Of Explosion Proof Series

PKW Of Explosion Proof Series(Ex mII T4)

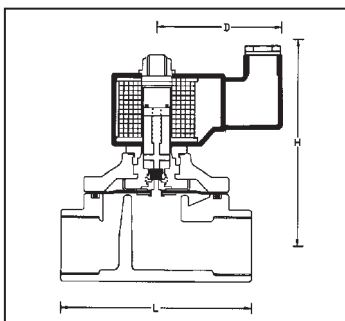


1. PKW series is direct multiplex drive, connected to diaphragm, normal close.
2. Valve body made of brass or cast bronze.
3. PKW can be operated directly without pressure.
4. Standard Voltage: 110VAC / 220VAC / 24VDC
5. Screwed end: BSPT, NPT, BSP.
6. Viton(130°C), Silicon(130°C), NBR(80°C)
7. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERIAL	
PARTS	MATERIAL
Body	Forge Brass
Coil	Ex mII T4
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR, Viton, Silicon
Diaphragm	NBR, Viton, Silicon

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²				
						AIR	WATER	LIGHT OIL	GAS	VACUUM
	PKW-10	3/8"	2.4	15 mm	-5°C ~ 80°C	0-7	0-5	0-5	0-5	
	PKW-15	1/2"	4.5	15 mm	-5°C ~ 80°C	0-7	0-5	0-5	0-5	
	PKW-20	3/4"	8.6	20 mm	-5°C ~ 80°C	0-7	0-5	0-5	0-5	
	PKW-25	1"	12	25 mm	-5°C ~ 80°C	0-7	0-5	0-5	0-5	

SKW Of Explosion Proof Series(Ex mII T4)

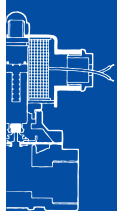


1. SKW series is direct multiplex-drive, conductive to diaphragm, normal close
2. Valve body made of investment casting S/S 316.
3. SKW can be operated directly without pressure.
4. Standard Voltage: 110VAC / 220VAC / 24VDC
5. Screwed end: BSPT, NPT, BSP.
6. Viton(130°C), Silicon(130°C), NBR(80°C).
7. AC Voltage tolerance: $\pm 10\%$.
DC Voltage tolerance: $\pm 1\%$.

MATERIAL	
PARTS	MATERIAL
Body	#316
Coil	Ex mII T4
Core	Stainless Steel
Tube	Stainless Steel
Spring	Stainless Steel
Plug	NBR, Viton, Silicon
Diaphragm	NBR, Viton, Silicon

DIN	MODEL	PIPE SIZE	Cv	ORIFICE	FLUID TEMP. °C	MAX. OPERATING PRESSURE DIFF. KG/CM ²				
						AIR	WATER	LIGHT OIL	GAS	VACUUM
	SKW-15	1/2"	4.5	15 mm	-5°C ~ 80°C	0-7	0-5	0-5	0-5	
	SKW-20	3/4"	8.6	20 mm	-5°C ~ 80°C	0-7	0-5	0-5	0-5	
	SKW-25	1"	12	25 mm	-5°C ~ 80°C	0-7	0-5	0-5	0-5	

-  PKW.SKW Not for Fluid Of :
1. Liquid Status When Heat , Solid Status When Cool.
 2. Viscosity Over 20 cst.
 3. Corrosive Fluid

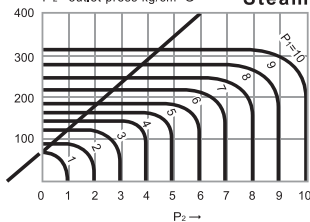


Appendix 2 - Flow Chart

UPS-15.SUS-15

P₁=inlet press kg/cm² G
P₂=outlet press kg/cm² G

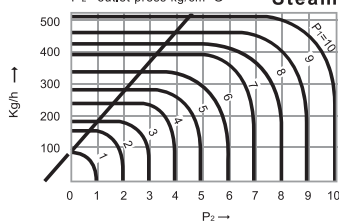
Steam



UPS-20.SUS-20

P₁=inlet press kg/cm² G
P₂=outlet press kg/cm² G

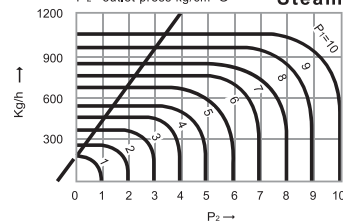
Steam



UPS-25.SUS-25

P₁=inlet press kg/cm² G
P₂=outlet press kg/cm² G

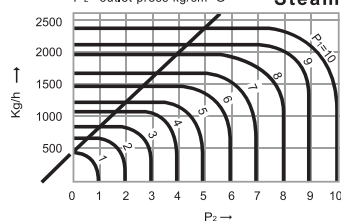
Steam



SUS-35

P₁=inlet press kg/cm² G
P₂=outlet press kg/cm² G

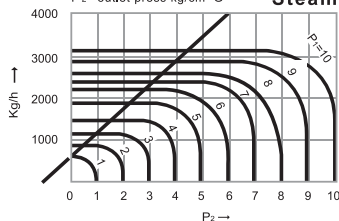
Steam



SUS-40

P₁=inlet press kg/cm² G
P₂=outlet press kg/cm² G

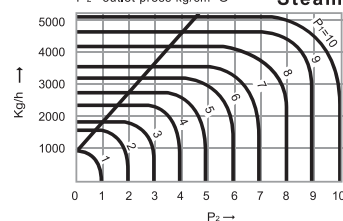
Steam



SUS-50

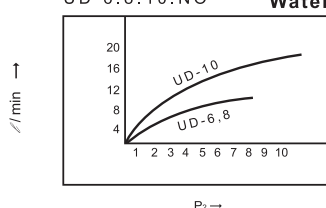
P₁=inlet press kg/cm² G
P₂=outlet press kg/cm² G

Steam



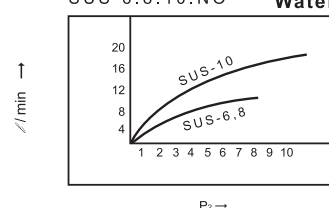
UD-6.8.10.NO

Water



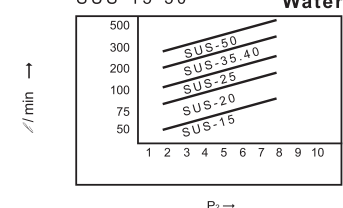
SUS-6.8.10.NO

Water



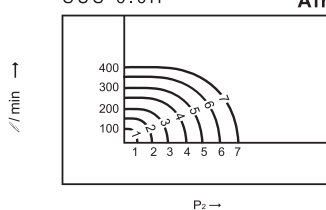
SUS-15-50

Water



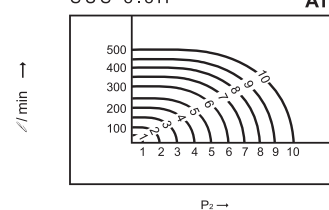
SUS-6.6H

Air



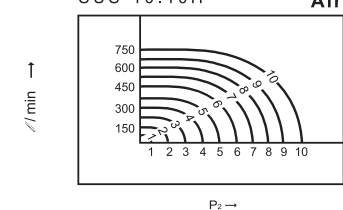
SUS-8.8H

Air



SUS-10.10H

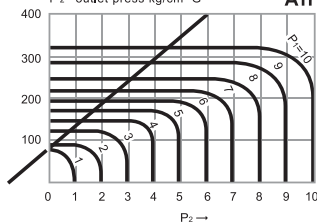
Air



SUS-15/PKS-15/SKS-15

P₁=inlet press kg/cm² G
P₂=outlet press kg/cm² G

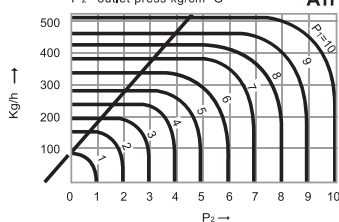
Air



SUS-20 /PKS-20/SKS-20

P₁=inlet press kg/cm² G
P₂=outlet press kg/cm² G

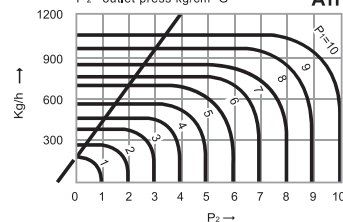
Air



SUS-25 /PKS-25/SKS-25

P₁=inlet press kg/cm² G
P₂=outlet press kg/cm² G

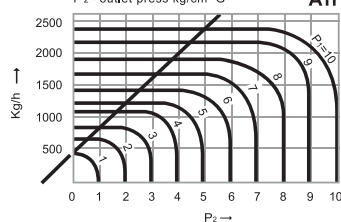
Air



SUS-35

P₁=inlet press kg/cm² G
P₂=outlet press kg/cm² G

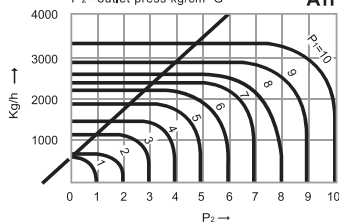
Air



SUS-40

P₁=inlet press kg/cm² G
P₂=outlet press kg/cm² G

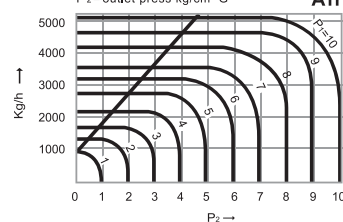
Air



SUS-50

P₁=inlet press kg/cm² G
P₂=outlet press kg/cm² G

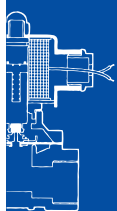
Air



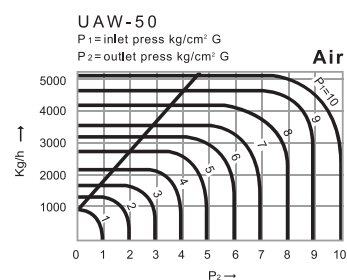
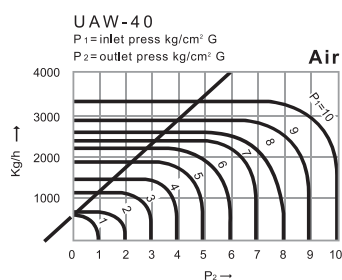
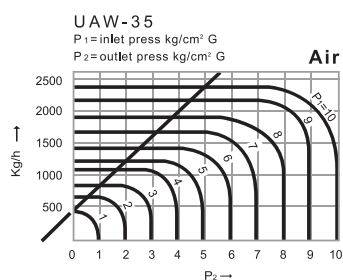
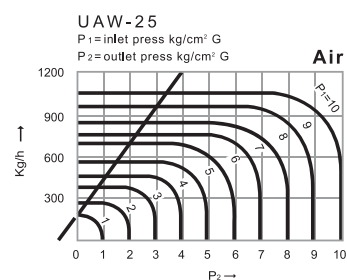
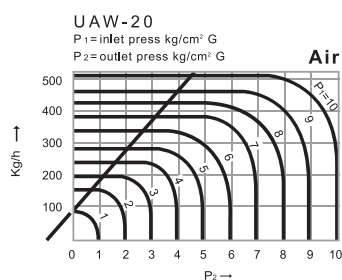
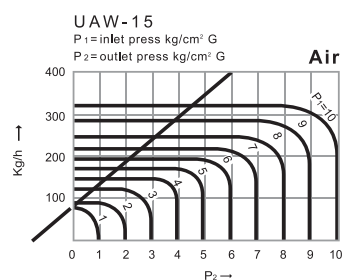
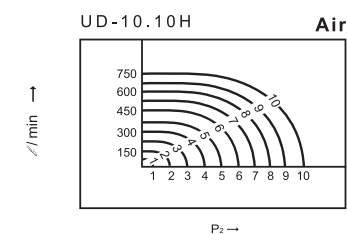
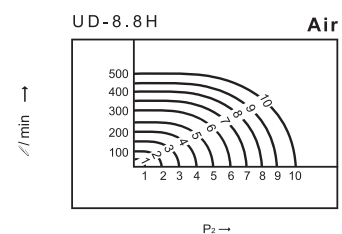
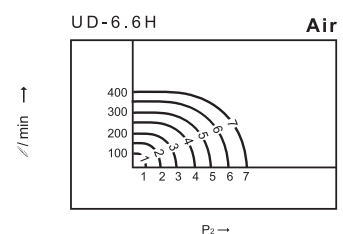
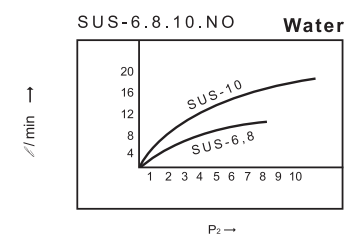
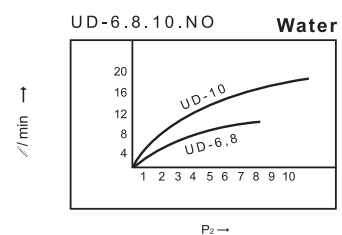
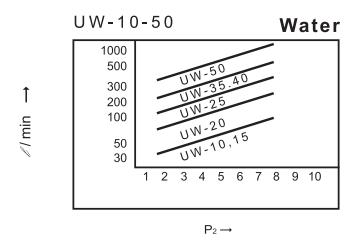
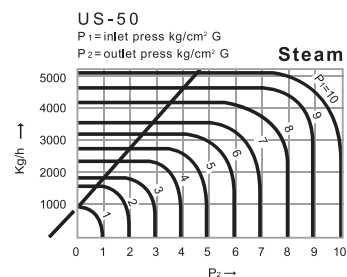
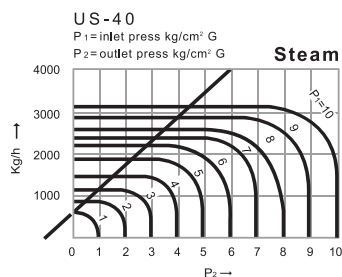
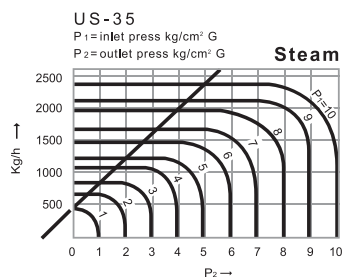
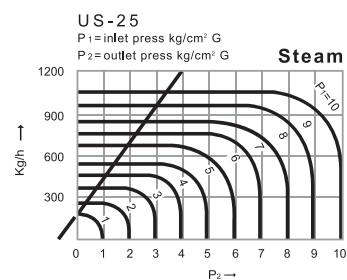
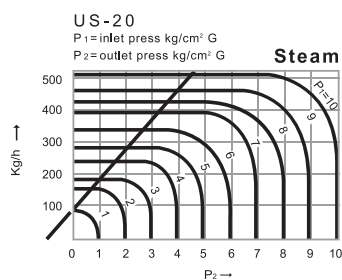
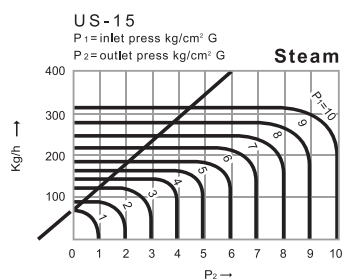
Steam / Air P₁ = Inlet Press KG/CM²

Steam / Air P₂ = Outlet Press KG/CM²

Water: Diff. Press KGF/CM²



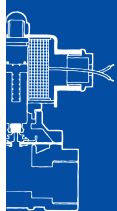
Appendix 2 - Flow Chart



Steam / Air P₁ = Inlet Press KG/CM²

Steam / Air P₂ = Outlet Press KG/CM²

Water: Diff. Press KGF/CM²



Appendix 2 - Flow Chart

